

Large Scale Cell Culture Bioreactor

Confidential Client

Pharmaceutical and Biopharmaceutical

MANDATE

Biopharm Engineered Systems LLC (BPES, a CPS Group Company) was retained to Design & Fabricate a Bioreactor process skid for Confidential Client as part of a equipment upgrade of an existing skid that has been operational since 1982. Confidential Client specializes in veterinarian pharmaceutical group specializing in antibiotics, vaccines, dermatology, antiparasitics, dental hygiene & animal healthcare.



PROJECT SCOPE

BPES's main project scope included familiarizing with an existing skid that had a very manual process and integrating the same process requirements into a fully automated system. Project challenges included considering piping and pressure requirements concerning multiple transfer modes from both newer and older, sensitive pieces of equipment. Other challenges included using steam to not only sterilize the equipment but the product itself, and therefore selecting steam components that can achieve both applications.

Process Equipment (Including but not Limited to)

200L & 75L TANKS
Metanova Mixers ZG2 & ZG3
Alfa Laval Pump
Steriflow POU Cooler
Almatec BIOCOR Diaphragm Pump
Micropump
Custom BPES Stainless Bubble Trap

Software / Communications

BPES Process Control Interface (HMI)

Equipment / Services Provided (Including but not Limited to):

- On-Site Evaluations
- P&ID Development
- Component Selection
- Process Flowpath Development
- Electrical Break Design Considerations
- 3D Model Reviews
- Component Tagging
- Shipment Tracking
- Component Submittal Logs
- Change Order Logs
- Software Demonstrations
- Valve Manifold Detailed Drawings
- Polishing Procedures
- TOP Review with QA & Validation
- Sequence of Operation Review
- Review of Validation Protocols
- SIP Testing
- Simulation Phase Testing
- Selective FAT Testing
- Passivation
- Custom Manifold Design
- On-Site Assembly

SECTOR OF ACTIVITY

Biopharmaceutical

CLIENT

Confidential Client

YEAR OF COMPLETION

2019

SKID DIMENSIONS

9' X 6' X 8.5'

BPES PROJECT VALUE

Confidential Value