Antigen Transfer Modernization (ATM) Suite

Solution Overview

Requirements

Increase existing production capacity & overall production, and create a modern & expandable infrastructure for ATM Suite

Solution

Modern and expandable Suite including Media Preparation, Fermentation, Downstream Processing, Clean-in-Place (CIP), and supporting Process Clean Utilities with streamlined processes.

Summary

Costs:

Technical Services	780,270
System Hardware, Software	411,370
Expenses	13,900

Schedule: 13 Months - Delivery On Time

Feedback: Client was pleased with the solution offered, including many mid-project requested changes that were accomodated successfully.

Technologies Used

Allen-Bradley ControlLogix Allen-Bradley CompactLogix WonderWare System Platform ThinManager thin client terminals

QSPEC Solutions



Antigen Transfer Modernization (ATM)

QSPEC Solutions executed a multiphase design and implementation project to design, document, configure and implement the control system for our client's new Antigen Transfer Modernization at their St. Joseph, MO manufacturing facility.

The client requested automation and controls design for ATM including GAMP documentation, control system hardware design & review, instrumentation & hardware procurement, PLC programming, Wonderware System Platform configuration & graphic development, control system startup services, and Software Site Acceptance Test (SAT) execution. The ATM scope included the following process areas: Media Preparation, Fermentation, Downstream Processing, Clean-in-Place (CIP) skids and supporting Process Clean Utilities.

The ATM control system was comprised of two (2) Allen-Bradly ControlLogix process automation controllers (PACs), nine (9) Allen-Bradley CompactLogix PACs, 16 Human-Machine Interface (HMI) ThinManager thin client terminals, and seven (7) Wonderware System Platform applications running in a dedicated Wonderware System Platform 2017 Galaxy.

GAMP documentation developed included a Functional Requirement Specifications (FRS) for each of the process areas based from the Sequence of Operations (SOO) and process design. Detailed Design Specifications (DDS) were also developed to further define the software and hardware details of the process control system. Each of the process areas also required a software Factory Acceptance Test (FAT) plan prior to field installation and a Site Acceptance Test (SAT) plan to verify each process area met the functional and detailed requirements. The successfully executed SAT plan was leveraged by the validation team to support the commissioning and validation of the manufacturing suite.

QSPEC Solutions provided a project team of eight (8) project engineers to successfully execute the project. The project manager and project execution team coordinated the project requirements, deliverables, subcontract management, procurement and schedules between the client, and process design firm, as well as third-party vendors, service providers, and subcontractors



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