

PROJECT PROFILE

Owner:

Genentech, Inc

Project Name:

PDFx, 400L Fermenter Skid



Project Location:

South San Francisco, CA

Technical Summary:

The PDFx project was for two bioreactor skids. The system included controls for temperature, Do, pH, agitation, media feed and weight. The system provided CIP and SIP sequences for the skid piping and vessels. The system was controlled by ControlLogix processors with Proficy iFix as the HMI platform and Batch Execution. The system includes one flat panel HMI with two wireless laptops configured as HMI clients. The two controllers incorporate Foundation Fieldbus and DeviceNet to the field devices. The project incorporates the Users Requirements Specification into the Functional Specification and updated it to comply with S88 batch manager.

Scope Responsibility:

Bay-Tec was responsible to revise the Users Requirements Specification (URS), Functional Specification (FS), Software Design Specification (SDS), Hardware Design Specification (HDS) and Traceability Matrix . Also included were instrument specifications and datasheets, control panel design and fabrication, instrument procurement, software design and integration. We coordinated the design with ISC (Skid Vendor) performed commissioning and validation support. This project was executed using GAMP 4 guidelines.