JOSH STRICKLAND

Education

BS – Chemical Engineering, University of South Alabama, 2019

Professional Affiliations

Tau Beta Pi, Omega Chi Epsilon (chemical engineering honors society)

Professional Experience

As a Project Professional, Josh is responsible for the design and development of systems including solid waste management and other environmental services. Josh works with SCS's GR-Liquids-Management team supporting regional and national clients. He has been involved in projects serving the oil and gas industry, manufacturing, and refining. He has worked on projects in various phases from FEL-1 to construction, contributing technical expertise in the preliminary design, sizing, and procurement of equipment.

Previous Experience

Hargrove Engineers and Constructors, Mobile, Alabama. Project Engineer II (October 2022 – June 2023)

- At the Chevron Pascagoula Refinery, worked with the task force supporting relief valve mitigation based on site-wide surveys performed by Siemens to identify relief scenarios where improper valve configurations were present. Led field walkdowns for piping projects to verify pipe lengths, equipment locations, valve types, and elbow types.

- On Chevron projects completed P&ID mark-ups in various phases from redlines through IFR in AutoCAD. These tasks often included field visits to verify existing field piping and equipment before and after the construction phase.

- Created and checked several line lists including pipe codes, process data, and insulation. Often collaboration was necessary with E&I, piping, mechanical, and electrical to determine appropriate pipe sizing, instrument data, and pipe code accuracy.

- Participated in an MQA with the refining task force discipline lead to recognize the project needs. This consisted of migrating through the file structure and providing useful feedback for project phase objectives.

- Designed and sized required relief valves for various projects and made necessary AutoCAD revisions for any changes. Valves were sized using a Chevron-provided software program called PSPPM. All inlet and outlet piping data was modeled into the program along with the equipment data. Calculations to determine inlet and outlet pressure drop and flow velocity were completed. Adjustments were then made to pipe size and relief valve size.

M & W Engineers and Constructors, Pascagoula, Mississippi. Process/Project Engineer (October 2019 – March 2022)

- Designed and developed a $2MM green field processing plant for activated carbon refinement. Created PFDs and P&IDs. Worked with E & I, civil, mechanical, and structural to see the project from FEL-2 to construction. Worked with vendors to size various equipment types including blowers, bulk transfer, and heat exchangers. Worked with the client on change orders, schedules, and project milestones. Completed a full hazard analysis with PHAs. Sized air ducts from the blower inlet to the bag house.

- Sized relief valves and simulated sour water stripper distillation column at a refinery specializing in the production of heavy lubricating oils. Ran simulations to maximize ammonia absorption varying the number of trays, height, and width of the column. Led meetings to present results and path forward with the client.

- Evaluated inadequate water supply pressure to plant fire water system at a production plant refining activated carbon for use in adsorption media. Met with plant personnel and water supply company reps on site to discuss possible causes. Submitted report on perceived deficiencies.

- Marked up P&IDs for the demo of the sister reactor to remove and replace the reactor in kind in the production of PVC. Led a field walk with designers to confirm markups and tie-in locations for the new vessel.

- Led discussions concerning assigned small-cap projects with management as project engineer.