

Rail Loading System Controls

Project Details

Client: Confidential

Industry: Oil & Gas

Scope of Services: Engineering

Governing Body: API, NFPA, OSHA,
Federal, State and Local Codes

Customer Benefits

Safety:

Loading light end fuels requires a serious design approach to safety. LeanTrak engineers are experienced in the engineering practices, codes and standards that apply to working with flammable materials. LeanTrak has expertise in working in OSHA Process Safety regulated facilities with a solid understanding of the hazards review processes.

Streamlined Schedule:

The design schedule overlapped with a major refinery maintenance turnaround which stretched the Client's engineering resources. LeanTrak's experience in the petroleum industry allowed the Client to rely on our engineers' leadership in working with the various equipment vendors and controls system integrators. LeanTrak solicited and reviewed vendor quotes, providing recommendations in line with the Client's standards. Due to the industry experience, the tight schedule was maintained and the project was commissioned on time.

Let's Get in Touch

Project Manager: Jeff Clausius

Email: projects@leantrak.com

Project Description

A complex controls and monitoring system design was required as part of an overall gasoline and diesel rail loading project. Ten fuel loading spots required controls interface from three operational units to safely and efficiently load rail cars. The gasoline and diesel piping infrastructure served both an existing truck terminal and the new rail loading system. Controls were put in place to allow for remote operation of the fuel supply to both loading systems.

LeanTrak Solution

- LeanTrak engineers developed a set of project P&ID's and a controls and monitoring strategy. These documents were used in the process safety Hazop and in operational strategy meetings.
- LeanTrak engineers worked with Toptech, the Client's preferred vendor for the loading system controls, to insure proper integration with the refinery's existing control systems.
- LeanTrak specified field instruments, control valves, flow meters and emergency shutdown devices.
- LeanTrak assisted the Client with the final check-out and commissioning of the control systems as well as on-site technical assistance throughout the construction phase.

