Infrastructure

Rail

Dry Creek Railcar Depot Safety System

Client DETI

Location Dry Creek, South Australia

Value $1.692 Million

Duration 2010

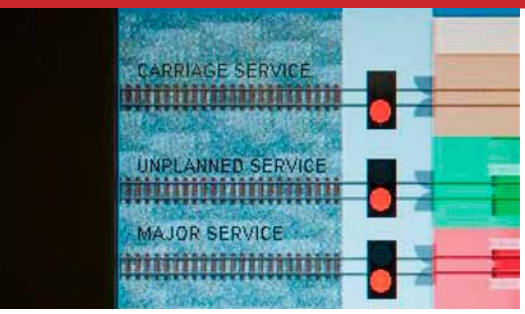
Project Overview

To accommodate planned developments along the North Terrace precinct in Adelaide, the current rail yard is being relocated to Dry Creek.

SAGE was appointed by The Department of Energy, Transport and Infrastructure (DETI) to design, construct and commission a safety system for the new site. The site incorporates 5 buildings and is controlled by 5 individual systems.

The system protects people working at the facilities, keeping them safe from moving trains, maintenance equipment and high voltage electricity. The system also protects assets including cranes, doors, gedi jacks, de-railers, overhead traction and train lifters from damage, disallowing trains from travelling and equipment from operating in predetermined unsafe conditions.

Utilising the SAGE team of TUV certified Safety Engineers, the project will be delivered within the required tight time frame.




Project Highlights

- SAGE is using the latest safety technology on the project; a number of Allen Bradley Programmable GuardLogix Controllers which are a product of Rockwell Automation.
- An interesting observation made during the development of User Requirement Specifications (URS) was the number of risk control strategies that are applicable to this project, which are common place in other industries. The cross pollination of ideas from industries such as food and beverage and the automotive industry enabled SAGE to provide some cost effective solutions to some of the challenges being faced.
- Safety system designed by TUV certified Safety Engineers and constructed by the only Australian company accredited to the global quality benchmark of the Control System Integrators Association (CSIA)
- During the project SAGE's scope of work was extended to include additions to the safety system as well as provide a rail car management system RFID providing tracking and reporting.

Cross pollination of ideas from other industries provided cost effective solutions to the challenges being faced

Capabilities Demonstrated

- High level detailed safety system design and consultancy
- Programming of Allen Bradley PLC
- Factory and Site Acceptance Testing
- Project Management
- Working with multiple stakeholder interfaces
- Working within tight project time frame constraints