



HAMILTON RAIL TERMINAL CASE STUDY

CANDO IS A LEADER IN TERMINAL & TRANSLOAD SERVICES

DESIGNING, BUILDING AND OPERATING A SOPHISTICATED FACILITY

Parkland Fuel Corporation's rail terminal facility in Hamilton is a great example of how Cando Rail Services optimizes its customers' networks. Parkland came to Cando in 2014 looking for a way to reliably supply its growing network of retail fuel stations in southern Ontario.

As one of North America's fastest growing independent marketers of fuel and petroleum products, Parkland was looking for opportunities to improve its product sourcing options. It also wanted to enhance supply reliability in the southern Ontario market, one of the highest demand areas in Canada.

With Ontario pipeline and refining capability at capacity, sourcing product by rail became a viable solution. Fuel delivery by rail typically means building a fuel distribution terminal or bulk plant with large storage tanks, along with equipment to blend it to exacting specifications. Cando came up with the concept of a modular and scalable rail terminal (direct-to-truck) that minimized initial start-up costs and project lead time, while at the same time not compromising on environmental protection and safety features.



DESIGN, BUILD, OPERATE, FINANCE

The key to achieving success for this type of project is Cando's ability to recognize and find a suitable location for a terminal facility. Working with Parkland, Cando sourced the land and helped work out the details of the land acquisition and agreements. Parkland then contracted with Cando to design, build and operate the facility. To successfully execute the design and start-up of this facility, Cando supplemented its in-house engineering, transload logistics, rail, and design expertise by building a team of experts from companies across Canada.

Cando worked with civil and environmental engineers to ensure the site would meet or exceed all necessary standards, including complying with Ontario's strict new regulations regarding spill prevention, air emissions, and safety. Throughout construction, Cando worked closely with regulators to ensure the finished facilities complied with legislation.

Working with long-term supplier, Hall Technologies of Calgary, Cando helped develop and design customized modular transload units that can work both as straight product transloaders or mixed product blenders. This equipment is among the most advanced of its kind for this type of operation, and currently the only direct rail to truck ethanol blending equipment being used in Canada.

The resulting rail terminal facility is the most advanced facility of its kind anywhere in Canada, which was one of the objectives at the outset. The team also added inventory control features such as RFID badges allowing for automated bill of lading control.

It took less than 12 months to move from initial concept to Phase I trial operations in December 2015, and less than 12 months after that to move to full operations in November 2016. To date, operations and throughput have met or exceeded expectations, resulting in a further Phase III expansion that came online in fall 2017.





WHAT IS TRANSLOADING

In basic terms, transloading is the process of transferring a shipment from one kind of transportation to another in order for the goods to reach their final destination.

WHAT ARE TERMINAL SERVICES

Terminal Services take transloading to a new level beyond simply emptying railcars into a truck.

Terminal Services include custom railcar switching, product blending, inventory management, and additional equipment that allows for simultaneous multi-truck and multi-product loading.

SAFETY FEATURES

Modular and scalable direct rail-to-truck terminals offer faster start-up times and lower initial costs, while maintaining high safety and productivity standards. Important safety features built into this project include:

- Direct transload rail bottom unload to truck bottom load, with full containment system
- Full track pans and secondary containment under the unloading spots
- Containment pad under truck loading area
- Automatic ground fail shut-down
- Overflow protection and shut-down
- Metered delivery
- Vapour balancing system
- Emergency Shutdown Devices (ESD's), enabling full shutdown of the site in an emergency
- Integrated load arms, and connections, minimizing the potential for spills
- Site built to meet or exceed all Federal, Provincial, Municipal, and Environmental Regulations
- Complete Emergency Response Plan (ERP)
- Integrated Safety Management System (SMS)



BLENDING GASOLINE

Cando has the equipment and expertise to offer blending, direct from railcar to truck for retail delivery. This includes blending of ethanol and gasoline to make ethanol blended gasoline, and blending of diesel and biodiesel to make various biodiesel blends. Cando's transloading equipment eliminates the intermediate step of transferring products to a blending tank or other blending vessel.

This highly efficient system reduces need for capital investment into permanent physical infrastructure such as above ground storage tanks. It also speeds the delivery of the facility from conception to operation.

Cando has developed its transloading expertise over the past decade. It has handled a variety of petroleum products on a significant scale including:

- Biodiesel
- Jet Fuel Diesel Fuel
- Gasoline
- E-10 Blending
- B-20 Blending
- Drilling Fluid
- Diesel fuel
- Ethanol

CANDO'S WORK IN TERMINAL AND TRANSLOAD SERVICES HAS EARNED US SPECIAL INDUSTRY RECOGNITION INCLUDING:

Marketing Innovation Award from the Railway Association of Canada

Health, Safety, Security and the Environment (HSSE) certification from Shell Canada

Numerous CN Safe Handling and CP Safe Shipper awards

Canada's Best Managed Company

Cando Rail Services is an industry leader in providing rail support services. Facilitating the safe, efficient movement of products across the entire supply chain, Cando is the crucial linchpin between our industrial customers and the Class 1 railways.



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