

# Fuel Storage and Distribution System (FSDS)



The Fuel Storage and Distribution System (FSDS) is designed to provide safe, efficient storage and distribution for 360,000 liters of bulk fuel. The system comes with everything needed to set up an initial fuel storage system in two 20' ISO containers. Designed to be rapidly deployed and ready to operate in all environments, the FSDS is ideal for combat support, green field camp installation and emergency humanitarian aid missions.

The tank farm consists of four 90,000 liter bladder tanks (Arctic King tanks) suitable for the containment of fuels. They include four Insta-Berm frame-supported berms, Sunshades and RainDrains. A 100 US gallon-per-minute (USGPM) electric-driven pump is used to fill the system and a 40 USGPM electric-driven pump is used for discharging fuel from the system. Both electric-driven systems have auxiliary fuel-driven units to be used in case of electric-power disruption or during initial deployment when electric power may not be available.

A filtration skid with a totalizing flow meter ensures that only clean fuel enters the system. Two dual hose reel skids with filtration and totalizing flow meters enable dispensing for up to four vehicles at a time.



Various nozzles are provided to enable filling of ground vehicles, tanker trucks or small aircraft. Portable secondary containment is provided for each mechanical skid. Flexible hoses are provided to connect the entire system together via manifolds built onto each filling and dispensing skid.

## Advanced Features

- Turnkey system stored in two 20' sea containers;
- Four fuel bladders and containment berms;
- 360,000 liters total fuel storage;
- Seven pump skids, electric with diesel backups;
- 100 USGPM fill pump (x2);
- 40 USGPM dispense pump (x2);
- Filter / meter skid (x1); and
- Meter / filter / hose reel skid (x2).

# Fuel Storage and Distribution System (FSDS)



## **Combat-ready**

- Designed to Canadian military specifications;
- Provides initial bulk fuel storage that can be increased as the mission footprint increases;
- Provides constant clean filtered fuels;
- Provides transferring capabilities to small ground vehicles or small aircraft;
- Provides bulk transferring to and from tanker trucks;
- Operates in extreme environments;
- Enables storage and distribution of JP-8, F-34 and F-54 fuels (can be configured for other fuels);
- Capable of receiving fuel while dispensing fuel with dedicated transfer pumps;
- System uses electric-driven transfer pumps but contains diesel-powered back up in the event of power loss; and
- Includes all necessary tools for installation and maintenance and all spare parts for emergency maintenance.



## **SEI combat support**

Serving the Canadian Forces and more than 50 other military forces around the world

SEI Industries Ltd has a long and proud tradition of providing the Canadian Forces (CF) with fuel and water combat support systems to sustain North Atlantic Treaty Organization (NATO) and United Nations (UN) peacekeeping operations.

Since the early 1990s, SEI has been the Canadian Forces primary supplier of products that transfer, transport, meter, filter and store fuels, water and chemicals. These products offer mobile liquid-handling solutions that are Canadian-engineered and manufactured.