



FWP Set with submerged lift pumps

Finnart Oil Terminal is an oil depot with extensive oil storage tanks built into the hillside. It has piers extending a short distance into the loch, providing a deep water berth for oil tankers. The terminal is located on the west coast of Scotland and is connected by two pipelines across the width of Scotland to the Grangemouth Refinery on the east coast. The existing fire fighting system had to be upgraded, where Fischcon delivered a custom-built containerized solution. The challenge in this project was the large distance between open water and location of the enclosure housing the main fire water pumps. Fischcon developed a diesel-hydraulic solution where submerged hydraulic driven lift pumps feed the fire water to the diesel driven main pumps, which in turn supply the fire water downstream to the fire ring main.

Project	Finnart
Operator / End user	Jacobs / INEOS Manufacturing Scotland Ltd.
Location	Finnart Ocean Terminal – United Kingdom
Capacity	1200 m ³ /h @ 16.7 bar (1800 m ³ /h @ 150%)
Scope of supply	One (1) Custom-built containerized (45ft) with hydraulic power packs and fire water pump sets in accordance with NFPA-20, comprising of: <ul style="list-style-type: none">• 2x Diesel & 1x Electric driven fire water pump set (600 m³/h @ 16.7 bar)• 3x Hydraulic driven submerged lift pump (600-900 m³/h @ 1.8 bar) with AISI316 caisson• 2x Fuel system with tank (24hr)• Integrated cooling water system• Ventilation system for room cooling and combustion air intake• 1x Jockey pump (330 lpm @ 8.3 bar)• Factory acceptance test with site start-up and commissioning activities

