Floating Roof Tank Fire Detection

AP Sensing Provides Riyadh Power Company with Floating Roof Fire Detection Solution

The Riyadh Power Company in Saudi Arabia has 5 floating-roof oil tanks for which they wanted a state-of-the-art fire monitoring and fire detection system. Each tank is 30 m high and has a diameter of 30 m.

Working together with the local partner Tyco, AP Sensing was selected for their Linear Heat Series solution.

The installation consists of 4 tanks in a cluster, with a 5th tank a few hundred meters away. The DTS unit and the fire alarm system are housed in between. A single fiber sensor cable is used to monitor the 3 km length of the monitoring system for all of the tanks.
A single DTS unit with 2 channels is used. Each tank is defined as a zone, with additional zones defined between the cluster, DTS housing, and the 5th tank.

The alarm information is routed to the fire alarm system, and when the alarm conditions are met, they trigger an automatic foam extinguisher system.