

nVent RAYCHEM TraceTek Fuel Leak Detection at Oslo Airport, Norway


PROJECT DETAILS:


Client:
Oslo Airport



Location:
Oslo Airport Gardermoen, Norway



Application:
Hydrocarbon sensing cable to protect fuel supply pipes



Technology:
Jet A1 Fuel Leak Detection for underground pipe



Contract scope:
Local partners supply & install detection system for airport fuel system



Completion date:
October 2012

KEY CHALLENGES

Oslo Airport realized that a leak in the underground pipe of its hydrant fuel system could result in significant environmental, safety and cost implications. It is very time and resource intensive to reach the source of the leak underneath the concrete, especially when the exact location is not known.

SOLUTION

Oslo Airport fuel system designers sought a solution that would mitigate safety and environmental risks and provide a more complete leak monitoring solution than periodic hydrostatic pressure checks. The designers needed a system that would immediately detect and pinpoint a leak's location for operators, enabling them to quickly and precisely respond to a fuel leak. Our local partners worked



Safety is the number 1 concern of most companies involved in the handling of petroleum fuels and protecting the environment is a close second. If buried fuel lines leak, there are safety and environmental issues.



TraceTek systems will quickly detect a fuel leak and alert operators to its location.

with the nVent RAYCHEM TraceTek team in Europe and the customer to design the system. Installation by our partners was of a pipe with the leak detection system encapsulated in the PU foam as a mechanical holder for the inner pipe inside double containment piping.

PRODUCTS

nVent's cable-based TraceTek system continuously monitors a pipe to quickly alert operators if a leak is detected within one meter of the location in either direction. The system has TT5000 sensing cable with a hydrocarbon scavenging material. It is installed inside the double containment pipe the fuel flows through. A pull through rope is used to install the sensor cable, with junctions at appropriate locations along the pipe.

BENEFITS

- The TraceTek system quickly reacts to a hydrocarbon leak. The liquid fuel is detected by the cable, triggering an alert via the TraceTek monitoring system.
- The accurate location gives the airport operators a precise place to dig to fix the leak.



Since the 1980's TraceTek products have been helping operators detect spills, locate the source of leaks and take corrective action before an incident creates major environmental safety and operational issues Quick detection and accurate location at the source of the leak is paramount. TraceTek sensor cable and monitoring systems let you do that. TraceTek cable provides round-the-clock, leak detection and precise leak location. Cable is installed and serviced through access risers in the apron. Other airport leak detection systems are based on periodic pressure decay measurements and a given section of pipe may be tested only once every 30 days. TraceTek systems provide early detection and provide precise information on where to dig.

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