



FAST RESPONSE DIESEL LEAK DETECTION SYSTEM TO PROTECT CRITICAL 24/7 OPERATIONS

Project:	Major global sports network broadcasting facility
Location:	Connecticut, USA
Requirement:	Fast and reliable remote fuel leak monitoring system
Results:	PermAlert® designed and implemented leak detection system for entire fuel system
Completion Date:	2017

OVERVIEW

Customer broadcasting facility run 24/7 to support its programming for global sports fans. Needing to ensure the entire facility has adequate backup power, customer built the state of the art diesel generator plant room on its campus. And to ensure proper fire & facility loss prevention and compliance to EPA standards, customer reached out to PermAlert to implement fuel leak detection system.

CLIENT REQUIREMENTS

Since the generator plant is located in a remote facility away from the main building, customer need to develop a fuel leak detection system that can be integrated and remotely monitored by existing BMS (building management system). In addition, given the high amount of fuel stored at the facility, customer also required a fast leak detection system that can detect early leaks.

THE PERMALERT SOLUTION

To meet the requirements, PermAlert installed the PAL-AT with AGW-Gold sensing cable for the entire generator fuel system to monitor the generator, day tanks and UST (underground storage tank).



AGW-Gold Sensing Cable

The AGW-Gold cable was installed on the floor around the perimeter of the generator and day tanks. AGW-Gold is a fast reaction, quick dry and chemically resistant sensing cable. The sensing cable was ideal for this application as was the only sensing cable in the industry that meets the FM7745 standard of 30 seconds or less response time whereas industry standard cable typically need significantly longer time (at least 30 minutes) to detect diesel.

PAL-AT Control Panel

The PAL-AT control panel was installed for the generator room due to its ability to easily integrate with the customer BMS system. The panel also provided incredible flexibility to extend and monitor multiple generator set as well as ancillary equipment by simply adding jumper cable in between the sensing cable. This ultimately led to a more optimized and cost effective solution needing less control panels.

PermAlert Leak Detection
Intelligent • Accurate • Reliable



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