

ESI RELIABILITY REPORT™

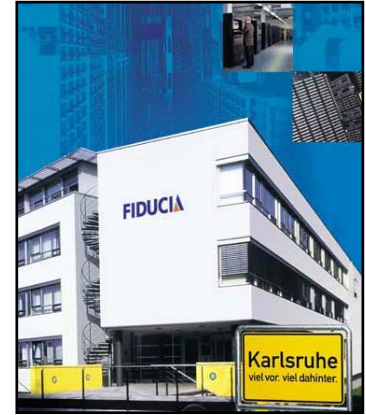
ESI PARTNERS WITH FIDUCIA IT WITH IMPECCABLE RESULTS

▶ ESI ASSIGNMENT: SOLUTION FOR MASSIVE FUEL CONTAMINATION

For over 40 years Fiducia IT in Karlsruhe, Germany has provided infrastructure and application services to approximately 10,000 organizations primarily in the financial services industry. Their clients' businesses depend on this information, therefore efficiency and timeliness of information is very important.

To support this mission, Fiducia IT installed a backup generator with 100,000 liters of stored diesel fuel to ensure continuous operation in the event of an extended power failure. Clean fuel is crucial to the reliable performance of the generator in support of their client Service Level Agreements.

For over a decade, Fiducia struggled with contaminated fuel supplying their backup generator. High levels of toxic bacteria, sludge and water created an imminent risk to the performance of the generator and fuel tank corrosion. This condition jeopardized SLA compliance and customer confidence. The situation reached a critical point where Fiducia elected to take action.



▶ SITUATION:

Fiducia IT first attempted to clean the existing 40,000 liters of contaminated fuel with a mobile fuel polishing approach. Then another 60,000 liters of fresh fuel was added to fill the 100,000 liter tank to capacity. This effort proved ultimately to be unsuccessful, as within one hour of start-up testing, the first filter in the recently installed **ESI CFS-5000CPSO** was completely plugged and required replacement. Within four hours of further testing a second filter was clogged and required replacement.

At the completion of a remediation period using the **CFS-5000CPSO**, the installation of the system proved successful, and the fuel in the fuel tanks was deemed clean and reliable for generator operation.

▶ THE ESI SOLUTION AND RESULT: GUARANTEED DECONTAMINATION

Experience proved that the antiquated practice of portable fuel polishing and fuel replacement was unable to remediate poor quality fuel threatening Fiducia IT. As requested, **ESI** installed its guaranteed **Clean Fuel System™** and after only four weekly operation cycles, the potentially damaging water and particulate were removed from the fuel tank making the fuel once again safe and reliable for generator operation. The **ESI Clean Fuel System™** saved Fiducia IT from significant financial and customer loss by restoring their critical backup generator system to its highest level of reliability. As the system automatically cleans the fuel weekly, Fiducia now has confidence and peace of mind their reliability is protected.



ESI leads the market in the design and manufacturing of specialized fuel filtration systems that enhance the reliability of mission critical power systems through innovative engineered solutions and services while safeguarding the environment.

