



Case Story

SACHTLEBEN CHEMIE GMBH

– fire protection of electronic rooms and steam turbines

Sachtleben is a leading manufacturer of top-quality chemical products with a unique range of white pigments and extenders. Fire protection systems installed at Sachtleben Chemie GmbH are local application systems for protection of electronic rooms and steam turbines.

The local application system is a Sem-Safe® fire extinguishing system. It is a fixed high pressure water mist system approved to protect high fire risk objects or areas.

The system in the turbine house located at Sachtleben's production facility protects four steam turbines that generate electricity produced from excess heat from the production. The system was installed and commissioned in April 2008 in corporation with our customer Callies Brandbekämpfungssysteme GmbH. During normal operation, the system is powered by two PAH 50 high pressure pumps mounted on the Sem-Safe® high pressure pump unit. To fulfil Sachtleben Chemie's specifications, the system has been customized with the possibility to feed the pipe and nozzle system from a fire truck equipped with a super power pack from Callies Brandbekämpfungssysteme GmbH. This ensures full system redundancy.



SEM-SAFE
WATER MIST SYSTEM

The Sem-Safe® system

The pipe and nozzle system for each turbine consists of four local application nozzles placed above and four nozzles placed below the turbine plus two additional nozzles for protection of the turbine oil lubrication systems. The system is operated manually from either locally placed alarm push buttons or an operation panel in one of Sachtleben's operation centres.

The electronic rooms are also protected by a local application system only powered by a fire truck equipped with a super power pack from Callies Brandbekämpfungssysteme GmbH. The nozzle systems consist of specially designed nozzle manifolds using 112 micro nozzles to cover both rooms.

The work with Sachtleben Chemie is an ongoing process. At present, Danfoss Semco is waiting for the order confirmation for two additional projects at Sachtleben Chemie. These include a local application system for protection of two large axial air compressors and a system that combines a total flooding system and water curtains. The latter is installed at the upstream end of a belt conveyer that delivers a sulphur residue to a processing plant. In case of fire on the conveyer, the system prevents the fire from spreading to the processing plant.



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For further information, please contact:

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Water Mist

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