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## A FOGTEC Fire Protection System for Stadlers New Generation of Double- Deck Trains

On June 27th 2008, SBB placed the order of electric double-deck trains for the S-Bahn Zurich. The Swiss Stadler Rail Group will deliver a total of 50 six-car trains from 2011 onwards.

The double deck coaches will operate in Germany and in Switzerland. The vehicles operating in Switzerland will only have smoke detection in the washing cabinets and the



technical areas to full fill the Swiss standard. Four out of the 50 vehicles also have to reach the requirements in Germany and therefore they additionally have smoke detectors in the passenger areas. This is the third project where Stadler implements the fire detection system of the "Series 3000".

## Bombardier Protects New Dual Power Locomotives with FOGTEC High Pressure Water Mist Solutions

Bombardier Transportation in Kassel got an order from the local Canadian operator AMT and local US operator NJT for the supply of 46 locomotives in complete. These locomotives are designed as dual power locomotives to be used on electrified and non- electrified routes. Each of the locomotives has two diesel engines to ensure the right performance in passenger transport for the regions of Newark, New Jersey and New York as well as Montreal. The FOGTEC Fire Protection system based on the new 3000 series is used for the monitoring and protection of the diesel engine rooms. For fire suppression Bombardier decided in behalf of FOGTEC high pressure water mist technology, which Bombardier is using also in the well known TRAXX platform.

## Eurotunnel Decides for FOGTEC Solution

Groupe Eurotunnel has taken a significant step towards the implementation of new SAFE (fire fighting stations) in the Channel Tunnel designed to combat fires using detection and aspersion. The contract was agreed on 9 November 2009 with a consortium comprising the companies RodioJ, Fogtec, ACIS, Eiffage and Spie. The German FOGTEC group is market leader in land-based water mist systems. A full-scale test to evaluate the FOGTEC system was carried

out in Spain on 7. and 9. April 2010. This test was performed under live conditions in intense temperatures (powerful enough to reach and even surpass 100 and 150 MW, which equates to a fire involving 40 cars). The results are extremely positive; they demonstrate the efficacy of the water mist to contain a fire and limit or even halt its propagation. The system offers many benefits including fast activation and easy access for the rescue services.

## Italian Magazine "La tecnica professionale" of CIFI Reports about New Rolling Stock in Italy – with FOGTEC Systems in a key role

The magazine refers to the Flirt Gargano of Swiss manufacturer Stadler as one of the first trains running in Italy equipped with a full automated fire protection system for passenger areas, as requested by new regulations. The Stadler Flirt for Gargano are equipped with FOGTEC Fire Protection systems, based on the well known 9000 series and with FOGTEC High Pressure Water Mist, in the same way like some hundreds of other Flirts for the Italian, German, French, Austrian and Swiss Market.

## FOGTEC Fire Protection System Implemented in the New Locomotive Platform of Schalker Eisenhütte

For the newly developed locomotive platform SDE 1800 the German rail vehicle manufacturer Schalker Eisenhütte decided in favour of the FOGTEC Fire Protection System. The fire detection system inside the machine room as well the driver's cab is based on the FOGTEC series 1000. Within the diesel machine room an active fire suppression system is additionally integrated which in turn is based on the FOGTEC high pressure water mist technology. The prototype vehicle – featured with the complete FOGTEC fire detection and extinguishing system – will be presented within an in-house exhibition at Schalker Eisenhütte in December 2010.



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## CBRC Will Use FOGTEC Fire Protection Systems for Metro Singapore

CBRC, the Chinese joint venture of Bombardier Transportation and the Chinese manufacturer CNR, awarded FOGTEC Fire Protection to supply the fire detection system for the 73 three car units CBRC will deliver for the new downtown line. The system is based on the 9000 series and will monitor the situation in the passenger area as well as some of the technical boxes and cabinets. Due to the special environmental conditions the used smoke detectors will be heated to avoid false alarms caused by the high humidity.

## PESA in Advanced Position on the Italian Railway Market– with FOGTEC Technology

After supplying already 42 trains to the Italian market the Polish Rolling Stock manufacturer PESA Bydgoszcz S.A. is also satisfied with the fluency of current order incomes. 27 trains were delivered to FSE so far. The latest orders are additional trains for different private owned operators in Italy.

## FOGTEC Fire Protection Systems also in Belarus- Due to success for Stadler with the Belarus Railway

In March this year Stadler announced a €60m order to supply 10 Fast Light Innovative Regional Trains (FLIRT) to Belarus Railway. The delivery will start in December this year



and continue until the middle of 2012. These trains will be built in two different versions. Six of them will serve the traditional local train network on the region of Minsk. The other four FLIRTs are intended for intercity travel between the larger towns in Belarus.

## Innovative within the Innovation itself: TALGO Type E250 Locomotive

The TALGO type E- 250 high speed locomotive, affectionately named as “rapid duck”, is now also sold to operators in the Republic of Uzbekistan. The charming loco with the “beak” is equipped with FOGTEC’s high end detection series 9000. Further there is a high pressure water mist suppression system incorporated which is able to suppress fires effectively in separated sections of the

vehicle. The system fits into the entire design as it is very slim, very light and does have high reliability and assists for international interoperability.

## FOGTEC Fire Protection now also to Refurbished Metro Sao Paulo Cars

Having success with the brand new train sets supplied by CAF for the Brazilian Metro Sao Paulo project, another phase of incorporating FOGTEC technology to Brazil has been opened. A local consortium, which is build of three main companies, has verified FOGTEC to design and deliver the smoke aspiration systems for refurbishment of 150 pcs. of Metro Sao Paulo railcars.

## More Flirt Orders from the Operators SOB and TPF

The Swiss vehicle manufacturer made a contract with the Swiss rail line “Schweizerische Südostbahn AG (SOB) over the delivery of 14 EMU, Typ Flirt (4- car train) worth 123 million Swiss francs. These vehicles are options out of the contract made between the SOB and Stadler in 2005. The Flirts are indented to replace existing trains and will be delivered from 2012 onwards.

As well as the SOB the operator Transport Public Fribourgeois (TPF) ordered 8 EMU FLIRTS. With this order of the eight 4-car passenger trains TPF reacted in spite of the raising passenger numbers in 2009.

## New FOGTEC Service Presence in Italy

Within the next weeks the new service presence of FOGTEC Rail Systems will start its operation. The new site will be in Calenzano nearby Florence and covers the full program of refilling, maintenance and on train services.

