

Seasonal Checks

Transys Projects is well used to the concept of seasonal checking of on-train equipment in support of its highly successful work in retrofitting cab air cooling and sanding systems, requiring assurance that all is well at the start of summer and autumn. To these regular tasks can be added a pre-winter health check to ensure all systems are in the best possible condition to operate reliably during the cold weather to come.

Rolling Stock

Transys Projects has experience in tackling the particular issues associated with both diesel and electric rolling stock and is able to bring its capability to bear on a wide range of specific issues, a few of which are described below.

Diesel Trains

Wax formation in fuel tanks, particularly when stabled overnight in cold weather, leads to blockage of inlet fuel filters and inability to start operations at the start of the day. Heating of the fuel system can reduce the risk of this preventing the service from running.

Electric Trains

Transys Projects has previously investigated and supplied solutions to prevent the effects of snow ingress into electric traction motors.

Fitment of conductor rail de-icing equipment to service trains is a measure that can have a significant effect on winter service reliability.

With overhead electrification, pantographs can be vulnerable to the presence of ice on conductor wires, damaging carbon strips, while the exposed position of the equipment can lead to blocking of the pantograph operation by ice.

About Transys Projects

Transys Projects Ltd is a leading provider of rail engineering solutions to the UK and international markets. We specialise in rolling stock engineering and installation, providing both technical systems expertise and an installation capability with a reputation for delivery and quality.

We supply a wide range of services from turnkey engineering solutions for operators and owners of rail vehicles, with strong project management input, to individual technical consultancy services. Our approach is flexible, adaptable and reliable, while partnerships with OEM suppliers provide the basis for enabling the introduction of new technology.

"I am particularly impressed by the standard of design work which has been produced in what is a technically challenging area."

"I have to say it makes a refreshing change when a supplier is responsive to a problem not of their making to such an extent that the end customer does not experience any impact whatsoever."



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WINTERISATION

Technical expertise and installation capability make Transys Projects a natural partner for tackling the difficulties associated with winter operation.

From pre-season 'health checks' to rolling out technical solutions, investigating specific issues, designing modifications and installing new equipment, Transys Projects can help.



The challenges of railway operation in cold weather have been underlined by the severe conditions during the winters of 2009-10 and 2010-11.

Transys Projects offers a range of services to the rail industry to meet these challenges.

We have specific experience in the design, engineering and installation of winterisation solutions for railway rolling stock — both electric and diesel. Our staff have many years of experience in rolling stock engineering from which to develop new techniques for overcoming the problems presented by operation in winter weather.

Whether the requirement is for a fleet assessment of seasonal preparation, turnkey installation of equipment or focused investigation of a specific technical issue, Transys Projects can assist in keeping reliable operation going during the winter months.

Technical Solutions

Among the systems for which Transys Projects can provide a fresh approach (including a full service of design, certification and installation) are:

Air systems — stopping ice formation in pipes and valves

Brake system — improving protection

Conductor rails — stopping ice interrupting power

Couplers — preventing ice and snow ingress

Diesel engines — heating fuel lines and filters

Door systems — reducing freezing of guides

Horns — stopping snow ingress and ice formation

Pantographs — Reducing ice damage

To improve its understanding of the market, Transys Projects would appreciate feedback from rail operators and rolling stock owners on how it can assist with winter preparations and preventative measures.

Please take a moment to fill in the questionnaire and send to our address overleaf, or you can complete the questionnaire online at www.transysprojects.ltd.uk/winter.html

Name of organisation: _____

Contact details: _____

Would you be interested in discussing the following with us?

Seasonal checks	Y / N
Air system solutions	Y / N
Coupler protection	Y / N
Door system resilience	Y / N
Horn protection	Y / N
Brake system protection	Y / N
Wax formation in fuel	Y / N
Traction motor air intake filtering	Y / N
Anti-icing equipment installation	Y / N
Pantograph protection	Y / N

Does your organisation experience other technical rolling stock issues associated with winter weather conditions? Please provide details:

Are there any subjects that you would like Transys Projects to investigate? Please provide details:
