

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

TECHNICAL BULLETIN - DECEMBER 1998

175. Safari Train / Canada Train Accident

In August 1998, BALPPA (the British Association of Leisure Parks, Piers and Attractions) circulated information concerning a minor accident on an Industrias Falgas Safari Train / Canada Train. We have since obtained more details of this accident from the Health & Safety Executive.

The accident resulted from the failure of swivel axle pins on one carriage of one of these devices manufactured in 1997. This was on the second carriage in the train, which then overturned causing minor injury to the occupants.

The short fatigue life of the axle swivel arrangement is a known design limitation on these rides although it is thought that it was not safety critical on the original Canada Train design. The reason for this was that, for the specified dimensions and operating conditions, there wasn't a significant risk of overturning.

However, there is now known to be more than one design version and the one which overturned has a significantly higher centre of mass than the original design. For those involved in certification of such rides, it is important to ensure that the Report of Design Review relates to the correct design version.

Committee Members :- Dr Garry Fawcett (Chairman), Mr Richard Barnes, Mr Bob Nicholls, Mr Robert Casey,
Mr Peter Smith and representatives of Plant Safety Ltd, and Banwell & Associates Ltd

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