

RISSB product for prioritisation

Primary information			
Type of product being suggested:	Standard		
Title of product being suggested:	Collision Avoidance and Proximity Warning on Track Maintenance Vehicles Including Road Rail Vehicles		
Date of suggestion:	January 2018		
Reason for suggestion:	Too many collisions involving track machines that result in personal injury and damage to rolling stock		
Railway discipline area:	Safety		
Scope:			
Suppliers of rolling stock will provide items to the standard set by the network owner for access to their railway. Unfortunately, many rolling stock operators haven't evaluated the risks of collisions between items of rolling stock and with people when machines are operated on track, either in open line running or possession / occupation work.			
Objective:			
The objective of the Standard would be to advise rolling stock operators of the risks imposed by rolling stock operating in close proximity to each other and to nearby workers. Those risks can be controlled through devices fitted to the track machines / road rail vehicles vehicles that provides warning to the operator / workers of the approach of a machine in to their work area or that the worker is entering an unsafe area created by the vehicles movements.			
Hazard identification:			
1	Serious personal injury	6	
2	collision	7	
3	derailment	8	
4	Damage to existing rail infrastructure	9	
5		10	
Benefits:			
<u>Safety</u>			
Past incidents have highlighted where deficiencies in the management of rolling stock operating in close proximity / possessions exist and controls are available if owners of the rolling stock are advised of the various types which can assist in the management of the risks. ONRSR has Road Rail Vehicles as a focus issue for 2018 so any industry improvement can only be beneficial to industry organisations meet their RSNL responsibilities.			
<u>Interoperabilityⁱ / harmonisationⁱⁱ</u>			
Most suppliers of track machines / RRV's have reversing cameras fitted but still incidents occur. By fitting additional controls it would lessen the likelihood of collisions between items of rolling stock in close proximity and of striking workers nearby who may be unaware of the machines movements.			
<u>Financial</u>			
There would be a cost for the procurement and installation of such devices but this can be reduced through the application of modern technology. The savings however through a reduction in incidents would outweigh the cost of implementation.			
<u>Environmental</u>			
By preventing collisions etc the likelihood of damage to the environment is significantly reduced.			

Impacts:

There will be a cost that some may not want to bear but cost-effective items can be made so that they become transportable between items used for such operations. Network owners could provide such devices to 3rd party suppliers for the term of engagement, given they are generally very limited.

i Interoperability - the ability of a process, system or a product to work with other process, systems or products (aka compatible systems through managed interfaces).

ii Harmonisation - the act of bringing into agreement so as to work effectively together (aka uniformity of systems).