

Reporting Body	IT Ministero delle infrastrutture e dei trasporti	ID	IT-1162
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### Occurrence Summary

What		Location	
Date of occurrence	09-06-11	Location name	Tunnel del Sempione, between Iselle (Italy) and Brig (Switzerland)
Local time	06:10		
Event type	Rolling stock events Fire in RS	Latitude	46:12:19 North
		Longitude	8:11:29 East

Description Fire in rolling stock

Direct Cause description doors of the tailgate of the semi-trailer opened which would have raised, for effect of the wind, the beam of the folding cover of the tarpaulin

### Final Report

Nam	Desc	Type	Size	Last	Orga	Repo
Relazione pubblica	Final report + official records	application/pdf	4416936	9/4/2012 11:20:58 AM	Softeco	

### Other Attachments

Nam	Desc	Type	Size	Last	Orga	Repo
RELAZION E INDAGINE sempron	Final report (text version)	application/pdf	871334	9/4/2012 11:22:00 AM	Softeco	

### What

Title Fire in RS, 09/06/2011, Tunnel del Sempione, between Iselle (Italy) and Brig (Switzerland) (Italy)

Occurrence type	Rolling stock events Fire in RS	Occurrence Class	Accident
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Date of occurrence	09-06-11	Local time	06:10
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Events Rolling stock events - Fire in RS

### Descriptions

Language	English	Translation provider	Information providers own
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Description	Fire in rolling stock	translation	
Location name	Tunnel del Sempione, between Iselle (Italy) and Brig (Switzerland)		
Railway System type	Railway	Country	Italy
Location type	Line	Border Country	Switzerland
Line type	Double track	Line number	
Allowed line speed		Km number	
Latitude	46:12:19 North	Longitude	8:11:29 East
Location description	Tunnel del Sempione, between Iselle (Italy) and Brig (Switzerland)		
Additional location in			
Location type details	Tunnel	Fixed installations	

#### Occurrence details

##### Railway vehicles

Movement type	Freight train	Train number	43762
RU	Italy BLS	Wagons overturned	No
Train speed at mom		Passengers onboard	No
Vehicle description			

##### Other objects involved in the occurrence

##### Other objects

##### Parties involved

IM Involved	Italy - SBB	RU
		Italy - BLS

	Fatalities	Serious injuries	Minor injuries
Passengers	0	0	0
Staff	0	0	0
Level crossing users	0	0	0
Unauthorised persons	0	0	0
Others	0	0	0
Total			

##### Material consequences

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Material Damage Infrastructure Estimated total mate  
Rolling stock

Damage description

Images

Name	Description	Type	Size	Last modified	Organization	Repository
0						

#### Causation

Causes

Language	English	Translation provider	Information providers own translation
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Direct Cause description

doors of the tailgate of the semi-trailer opened which would have raised, for effect of the wind, the beam of the folding cover of the tarpaulin

Underlying and root causes description

absence of a system for localization of fire and spillage of chemical products and verification of the gauge before entering the tunnel  
missing of train verification after a long stop

Causation classification

Rolling stock events - Fire in RS

- 1 - Third party (open doors of a road semitrailer loaded on a wagon)
  - 1 - Technical availability (missing of a system for localization of fire and gauge verification)
- 2 - Third party (theft attempt on a road semi-trailer loaded on a wagon)
  - 1 - Procedures (absence of train and load verifications after a long stop of the train)

#### Recommendations

Recommendation

Issuing information

Recommendation title	expand and transform the train control system installed in Preglia		
Recommendation ID	REC-000076	End implementer	IM
Status	Sent to addressee	Addressee	RFI SpA
Issue date	03-08-12		

Recommendation texts

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Language	English	Translation provider	Information providers own translation
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Recommendations text

It is recommended to RFI SpA to expand and transform the train control system installed in Preglia, providing in the route Iselle - Domodossola the installation of a hot-box detector, a blocked brakes detector, a system for verification of the wheel load, localization of fire and spillage of chemical products and verification of the gauge, as already present on the Swiss side. For a maximum guarantee of effectiveness of the intervention and to obtain consistent results on the specific Italian route - which, it should be remembered, is directed and managed by SBB -, it is highly hoped that such systems can be part of the "Networking the wayside train monitoring systems" of SBB CFF FFS.

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Implementation information

Implementation status	Implementation date
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Unknown

NSA Response

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NIB Comment

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Recommendation

Issuing information

Recommendation title	implement the actions required to verify the overall security of the Simplon tunnel		
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Recommendation ID	REC-000077	End implementer	Government
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Status	Sent to addressee	Addressee	Italian Ministry of Infrastructures and Transports
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Issue date	03-08-12
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Recommendation texts

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Language	English	Translation provider	Information providers own translation
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Recommendations text

It is recommended to the Italian Ministry of Infrastructures and Transports - Department for Infrastructures, and Department for Transports, Navigation and Information Technology Systems and Statistics, in cooperation with the competent Helvetic Authorities, pursuant to the existing bilateral agreements, to implement the actions required to verify the overall security of the Simplon tunnel, with particular reference to the number of cross-connections between tubes I and II of the tunnel, and install signalling such that they can be easily recognized also by train passengers, consistent with the provisions of the European Commission Decision of 20 December 2007 concerning the technical specification for interoperability relating to "safety in railway tunnels in the trans-European conventional and high-speed railways" and the Decree of the Italian Ministry of Infrastructure and Transport of 28 October 2005 "Safety in Railway Tunnels".

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Implementation information

Implementation status	Implementation date
Unknown	

NSA Response

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NIB Comment

Recommendation

Issuing information

Recommendation title	verify the application of control procedures of semitrailers in the departure station of the train		
Recommendation ID	REC-000078	End implementer	NSA
Status	Sent to addressee	Addressee	ANSF
Issue date	03-08-12		

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Recommendation texts

Language	English	Translation provider	Information providers own translation
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Recommendations text

It is recommended to the National Safety Authority (ANSF), as part of its auditing activities, to verify the application of control procedures of semitrailers in the departure station of the train, to check that the tarpaulins (in the side and in the roof) are positioned correctly and that the rear doors are properly closed.

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Implementation information

Implementation status	Implementation date
Unknown	

NSA Response

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NIB Comment

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**Recommendation**

## Issuing information

Recommendation title	verify the application of quality controls		
Recommendation ID	REC-000079	End implementer	NSA
Status	Sent to addressee	Addressee	ANSF
Issue date	03-08-12		

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Recommendation texts

Language	English	Translation provider	Information providers own translation
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## Recommendations text

It is recommended to the National Safety Authority (ANSF), as part of its auditing activities, to verify the application of quality controls provided by the "Conditions for the exchange of technical inspection of the wagons", Annex 9 of the Uniform Contract Application, by the Railway Undertakings operating under the Exchange Technical Visit at the station of Domodossola II.

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Implementation information

Implementation status	Implementation date
Unknown	

## NSA Response

## NIB Comment

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**Recommendation**

## Issuing information

Recommendation title	evaluate the opportunity of requiring the repetition of the full origin visit in case of long stops of freight trains		
Recommendation ID	REC-000080	End implementer	NSA
Status	Sent to addressee	Addressee	ANSF
Issue date	03-08-12		

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Recommendation texts

Language	English	Translation provider	Information providers own translation
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## Recommendations text

It is recommended to the National Safety Authority (ANSF) to evaluate the opportunity of requiring the repetition of the full origin visit in case of long stops of freight trains.

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Implementation information

Implementation status	Implementation date
Unknown	

NSA Response

NIB Comment

Causation links

Rolling stock events - Fire in RS

Subsystem - Third party (open doors of a road semitrailer loaded on a wagon)

Causal factors - Technical availability (missing of a system for localization of fire and gauge verification)

Subsystem - Third party (theft attempt on a road semi-trailer loaded on a wagon)

Causal factors - Procedures (absence of train and load verifications after a long stop of the train)

Investigation details

Legal Basis National rules imposed by implementing of the Safety Directive 2004/49/EC - in light of Article 19, §2 of SD - (a) the seriousness of the accident or incident

Other reason descrip

ID	IT-1162	Reporting Body	Ministero delle infrastrutture e dei trasporti
National investigatio			
Occurrence creation	16-06-11 14:07:10	Investigator in charge	
Decision to investigate	10-06-11		
Declaration date	16-06-11		
Date of IM/RU notific			

Report Type	Final report	Workflow Status	Validated
Report Version	2	Investigation Status	Closed

Other Attachments	Name	Descriptio	Type	Size	Last	Organizati	Repositor
	RELAZION E INDAGINE sempione 190712.p df	Final report (text version)	applicatio n/pdf	871334	9/4/2012 11:22:00 AM	Softeco	

Final Report	Name	Descriptio	Type	Size	Last	Organizati	Repositor
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e dei trasporti

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