

Reporting Body	IT Ministero delle infrastrutture e dei trasporti	ID	IT-1204
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Occurrence Summary

What		Location	
Date of occurrence	31-07-11	Location name	Napoli Centrale station, switch n. 78
Local time	16:02	Latitude	
Event type	Railway vehicle movement events Train derailment	Longitude	
Description	Two cars of the train ETR 485.036 derailed on switch n. 78. The train was not operating passenger service.		

Direct Cause descrip

Final Report

Nam	Desc	Type	Size	Last	Orga	Repo
NAP			2144	6/29		
OLI			64	/201		
CLE				2		
31.0				10:0		
7.20				0:05		
11.p				AM		
df						

Other Attachments

Nam	Desc	Type	Size	Last	Orga	Repo
			0			

What

Title	Train derailment, 31/07/2011, Napoli Centrale station, switch n. 78 (Italy)					
Occurrence type	Railway vehicle movement events Train derailment	Occurrence Class	Accident			
Date of occurrence	31-07-11	Local time	16:02			
Events	Railway vehicle movement events - Train derailment					
Descriptions						
Language	Translation provider					
Description	Two cars of the train ETR 485.036 derailed on switch n. 78. The train was not operating passenger service.					
Location name	Napoli Centrale station, switch n. 78					
Railway System type	Railway	Country	Italy			
Location type	Station	Border Country				

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Line type		Line number
Allowed line speed		Km number
Latitude		Longitude
Location description	Napoli Centrale station, switch n. 78	
Additional location in		
Location type details	Switches And Crossings	Fixed installations

Occurrence details

Railway vehicles

Movement type	Shunting operation	Train number
RU	Italy Trenitalia SpA	Wagons overturned
Train speed at mom		Passengers onboard
Vehicle description		

Other objects involved in the occurrence

Other objects

Parties involved

IM Involved	Italy - RFI SpA	RU Italy - Trenitalia SpA
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Fatalities

Serious injuries

Minor injuries

Passengers

Staff

Level crossing users

Unauthorised persons

Others

Total

Material consequences

Material Damage	Infrastructure Rolling stock	Estimated total mate
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Damage description

Images

Name	Description	Type	Size	Last modified	Organization	Repository
0						

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Causation

Causes

Language Translation provider

Direct Cause description

Underlying and root causes description

Causation classification

Railway vehicle movement events - Train derailment

- 1 - Switches and crossings (conservation of the track geometry not in conformity, in proximity of the switch No.78 in the area following the switch blade)

Recommendations

Recommendation

Issuing information

Recommendation title It is recommended to the National Safety Authority (ANSF) to take actions aimed at the implementation

Recommendation ID 1 End implementer

Status Addressee

Issue date 04-05-12

Recommendation texts

Language Translation provider

Recommendations text

It is recommended to the National Safety Authority (ANSF) to take actions aimed at the implementation, by the Infrastructure Manager, of actions to correct and improve the maintenance status of track equipment (switches) present in the station where the derailment occurred, focusing the attention to the state of conservation of the sleepers, on the geometry of the rail (surfaces of the band of contact with the wheel) and the connecting devices between the rails (thermal expansion joints and "batten" junctions).

Implementation information

Implementation status Implementation date

NSA Response

NIB Comment

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Recommendation

Issuing information

Recommendation title	Given that events similar to that examined have occurred in other yards of the railway network and		
Recommendation ID	2	End implementer	
Status		Addressee	
Issue date	04-05-12		

Recommendation texts

Language	Translation provider
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Recommendations text

Given that events similar to that examined have occurred in other yards of the railway network and that the wheel-rail interaction at low-speed appears to play a substantial role, it is recommended to the National Safety Authority (ANSF) to strengthen the measures for checking the status of track equipment maintenance (switches) present in the yards of the stations of the Italian Railway Network, focusing on the conservation status of the sleepers, the geometry of the rail (surfaces of the band of contact with the wheel) and the rail connecting devices (thermal expansion joints and "batten" junctions).

Implementation information

Implementation status	Implementation date
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NSA Response

NIB Comment

Recommendation

Issuing information

Recommendation title	It is recommended to the National Safety Authority (ANSF) to start a study with the stakeholders on		
Recommendation ID	3	End implementer	
Status		Addressee	
Issue date	04-05-12		

Recommendation texts

Language	Translation provider
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Recommendations text

It is recommended to the National Safety Authority (ANSF) to start a study with the stakeholders on the effects of different levels of lathe work treads of the wheels, when analyzing the behavior wheel-rail contact in attrition conditions.

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Implementation information

Implementation status	Implementation date
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NSA Response

NIB Comment

Recommendation

Issuing information

Recommendation title	It is recommended to the Infrastructure Manager to preserve immediately all evidence in the areas o		
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Recommendation ID	4	End implementer
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Status	Addressee
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Issue date	04-05-12
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Recommendation texts

Language	Translation provider
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Recommendations text

It is recommended to the Infrastructure Manager to preserve immediately all evidence in the areas of infrastructure affected by accidents or incidents, detecting with suitable equipment the infrastructural details . These surveys will be performed as soon as possible, giving cognizance and evidence for the purposes of investigation with certain date and time , and also to avoid a late action to interfere with the restoration of the operation.

Implementation information

Implementation status	Implementation date
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NSA Response

NIB Comment

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Causation links

Railway vehicle movement events - Train derailment

Subsystem - Infrastructure - Switches and crossings (conservation of the track geometry not in conformity, in proximity of the switch No.78 in the area following the switch blade)

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

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National investigatio

Occurrence creation	01-08-11 10:45:50	Investigator in charge
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Decision to investigate

Declaration date	04-05-12
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Date of IM/RU notific

Report Type	Final report	Workflow Status	Validated
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Report Version	2	Investigation Status	Closed
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Other Attachments	Name	Descriptio	Type	Size	Last	Organizati	Repositor
				0			

Final Report	Name	Descriptio	Type	Size	Last	Organizati	Repositor
	NAPOLI CLE 31.07.201 1.pdf			214464	6/29/2012 10:00:05 AM		