



*Agenzia Nazionale per la Sicurezza delle Ferrovie  
e delle Infrastrutture Stradali e Autostradali*

DIREZIONE GENERALE PER LA SICUREZZA DELLE FERROVIE

to **European Union Agency for Railways**

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**Subject:** JNS urgent procedure on “Braking wagon system” concerning flames on organic composite Brake Blocks (LL) IB116\*

**Attachments:**

- [1] Template of fixed LL brake block events occurred in Italy between 2019-2021
- [2] Geographical representation of fixed LL brake block events occurred in Italy
- [3] JNS request
- [4] Safety alert concerning fixed composite low friction coefficient (LL) brake blocks, issued by ANSFISA, 09.02.2021
- [5] Urgent preventive measures in order to avoid accidents and incidents to vehicles equipped with composite low friction coefficient (LL) brake blocks, issued by ANSFISA, 06.08.2021.

In Italy, since October 2019, we have registered 29 events concerning vehicles, where the brake blocks had an increase of the temperature resulting in flames on the brake blocks mainly due to malfunctions to the continuous automatic brake. All the events referred to vehicles equipped with composite low friction coefficient (LL) type IB116\*.

In attachment [1] you can find a template reporting all the available relevant information collected so far. Attachment [2] shows a geographical representation of fixed LL brake block events occurred in Italy between 2019-2021. In the attachment [3] you can find the format provided to request the JNS, filled with the relevant information. Attachment [5] contain measures introduced in Italy as a consequence of the iteration of the fixed brake block events since a safety alert (Attachment [4]) was issued by ANSFISA.

Furthermore on October 28 2021 a new Safety alert was sent by the Swedish NSA about composite brake blocks and fixed/sliding brake, following the safety issues raised by this Agency (03/03/2021) and the Dutch NSA (8/11/2017). All the relevant information are available in the Safety Information System provided by ERA.

Due to the potential consequences of these events (in Italy there was a derailment in 2020 and several trains involved were transporting dangerous goods such as LPG) and knowing the



recommendations issued from BEATT on the topic, we request to reopen the JNS on “Braking wagon system” focusing on flames on organic composite Brake Blocks (LL) IB116\*, adopting an URGENT PROCEDURE.

We strongly believe that the most effective measures to be taken should be identified at UE level, involving in the activity the relevant experts of the railway sector.

Given the severity of the situation, Italy is going to adopt further restriction to the circulation of vehicles equipped with composite low friction coefficient (LL) type IB116\* according to the provision given by the art. 8, comma 3 point c) of Directive 798/16 (“urgent preventive measures”).

Trusting on the acceptance of this request, we ask to consider our participation to the activities.

The General Director

*Mr. Pier Luigi Giovanni Navone*



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