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WAGON USERS Study Group

Proposed amendment to GCU Appendix 11

Amendment history

Amendment made by	Date	Paragraph	Amendment
Stefan Zebracki	3/3/2017		First drafted following TTI WG meeting of Jan 2017
Approved by TTI WG	31/3/2017		Following TTI WG minutes of March 2017
Approved by WG SG	1/6/2017		Following WU SG minutes of June 2017

Title:	Warning sign: high voltage
Proposed amendment made by (RU / keeper / other body):	DB Cargo AG
Proposed amendment concerns:	☐ Appendix 9 ☒ Appendix 11
Proposer:	Stefan Zebracki
Location, date:	Mainz, 3/3/2017
Concise description:	GCU Appendix 11 currently contains only one warning sign for high voltage (a lightning flash). This amendment proposes to include in GCU Appendix 11 the other warning sign for high voltage, as set out in DIN EN 15877-1:2012-12.

1. Starting-point (current situation):

1.1. Introduction

DIN EN 15877-1:2012-12 currently contains two warning signs for high voltage which may be applied on wagons with ladders or steps.

GCU Appendix 11 contains only one of these.

1.2. Mode of operation

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1.3. Anomaly / description of problem:

GCU Appendix 11 contains only one warning sign for high voltage. The other warning sign for high voltage, as set out in DIN EN 15877-1:2012-12, may be used in addition to the lightning flash but is currently absent from Appendix 11.

1.4. Does this concern a recognised code of practice* (e.g. DIN, EN)?

☐No ☒ Yes (state which): DIN EN 15877-1:2012-12

* “Code of practice: a written set of rules that, when correctly applied, can be used to control one or more specific hazards." (source: Regulation EC 352/2009, Article 3)

"Technical provisions laid down in writing or conveyed verbally and pertaining to procedures, equipment and modes of operation which are generally agreed by the populations concerned (specialists, users, consumer and public authorities) to be suitable for achieving the objective prescribed by law, and which have either proven their worth in practice or, it is generally agreed, are likely to within a reasonable period of time" (translation/source: BMJ Handbuch der Rechtsförmlichkeit – German Ministry of Justice)

2. Target situation

2.1. Elimination of anomaly/problem (goal)

Include the pictogram from DIN EN 15877-1:2012-12 which is currently missing from GCU Appendix 11 under point 8.1.

3. Additional text (relates only to proposed amendments to GCU Appendix 11):

Key 1 yellow

2 black

3 red

Position: On wagons with steps or ladders, in the immediate vicinity of these fittings and at a height such that the sign is visible before the danger zone is reached. For use on wagons where the top step or upper part of the ladder is more than 2.0 m above rail level, or whose design enables them to be climbed.

This pictogram may be shown on a rectangular blue background measuring 400 mm x 220 mm.

Meaning: Warning - high voltage. Stop! You are entering a particularly dangerous area. Only duly authorised personnel may work in this area having first taken the necessary precautions.

Remark: This marking is mandatory as of 1/1/2021.

4. Reasoning:

DIN EN 15877-1:2012-12 includes the warning sign for high voltage shown in Point 3 of this proposal, which may be used adjacent to the lightning flash on wagon steps or ladders.

5. Assess potential positive/negative impacts

Assess the possible positive and negative effects (operations, costs, administration, interoperability, safety, competitiveness, etc.) on a scale of 1 (very low) to 5 (very high). Justify observations

Impacts:
Operations, Interoperability, Competitiveness, Costs, Administration (value: 2)

Safety (value: 3).

The pictogram already exists in the standard and is already used on wagons.

6. Safety appraisal of proposed amendment

Description of actual/target system, and scope of change to be made (see points 1 and 2).

No need for a risk assessment since a code of practice was applied.

Safety appraisal done by:

6.1. Does the change made impact on safety?	☐No ☐ Yes
Reasoning: x	
6.2. Is the change significant?	☐No ☐ Yes
Reasoning: see template Attach the "significant change" test template.	
6.3. Determining and classifying risk:	☐ N/A
6.3.1. Effect of change in normal operation: 6.3.2. Effect of change in the event of disruption / deviation from normal operation: 6.3.3. Potential misuse of system: ☐ No ☐ Yes (describe possible misuse):	
6.4. Have safety measures been applied?	☐No ☐ Yes
For each type of risk, one of the following risk acceptance criteria is to be selected: • *Code of practice* • *Use of reference system* • *Explicit risk estimate*	
6.5. Has a risk analysis been submitted to the assessment body?	☐No ☐ Yes
Assessment body: Attach the verdict reached by the assessment body:	[Appendix]