



RECOMMENDATION FOR USE

NB-RAIL COORDINATION GROUP
INTEROPERABILITY DIRECTIVE AND SUBSEQUENT
AMENDMENTS ON THE INTEROPERABILITY OF THE
RAIL SYSTEM WITHIN THE UNION

RFU-RST-300

Issue 01
Date 21/05/2017
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TITLE

COMPATIBILITY WITH TRAIN DETECTION SYSTEMS OPTIONAL OR MANDATORY

ORIGINATOR

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SUBJECT RELATED TO

ERA/GUI/07-2011/INT
TSI LOC&PAS (1302/2014) section
4.2.3.3.1

AMENDMENT RECORD:

First version

DESCRIPTION AND BACKGROUND EXPLANATION

References

- [1] TSI LOC&PAS (1302/2014)
- [2] ERA/GUI/07-2011/INT, Guide for the application of TSI LOC&PAS, Rev. 2.00 of 01 January 2015
- [3] ERA/ERTMS/033281, Interfaces between control-command and signalling trackside and other subsystems, version 3.0 of 04 December 2015

Introduction

TSI LOC&PAS [1], section 4.2.3.3.1 “Rolling Stock characteristics for the compatibility with train detection systems” reads:

“(1) For units designed to be operated on other track gauges than the 1 520 mm system, the set of rolling stock characteristics for compatibility with train detection target systems are given in clauses 4.2.3.3.1.1, 4.2.3.3.1.2 and 4.2.3.3.1.3.

Reference is made to clauses of the specification referenced in Appendix J-2, index 1 of this TSI (also referenced in Annex A, Index 77 of CCS TSI).

(2) The set of characteristics the rolling stock is compatible with shall be recorded in the technical documentation described in clause 4.2.12 of this TSI.”

Sections 4.2.3.3.1.1 to 4.2.3.3.1.3 contain various requirements to rolling stock that ensure technical compatibility with the train detection target systems (track circuits, axle counters, loop equipment). In none of these sections, including 4.2.3.3.1 itself, the TSI states that any of these requirements is neither optional nor mandatory.

Section 4.2.3.3.1 (1) references document [3].

However, the TSI LOC&PAS Application Guide [2] says in its comment to section 4.2.3.3.1:

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“Rolling stock are permitted to be non-compatible with any TSI specification relating to this section.”

Problem

The TSI is not clear whether the rolling stock shall be compatible with one, all or none of the set of characteristics of train detection **target** systems set out in sections 4.2.3.3.1.1 to 4.2.3.3.1.3.

RFU PROPOSAL

The TSI LOC&PAS [1] does not require the applicant to demonstrate that the RST conforms to the set of characteristics for compatibility with all type of train detection **target** systems specified, when it is not relevant (e.g. network “A” is composed only with track circuits there is no need to demonstrate compatibility with axle counters).

NoBos should verify that the applicant records in its technical documentation (as described in clause 4.2.12 of TSI LOC&PAS [1]) the set of characteristics for compatibility with train detection systems the rolling stock is compatible with, whether they are target system or not. In addition, the NoBos shall include a direct reference to this information in the EC certificate or in the annex to the EC certificate.

Any NoBo that experiences problems concerning this interpretation is encouraged to report this to NB-Rail Subgroup Rolling Stock and to the ERA.

Note: The applicant can aim for compliance with more than one or all types of train detection systems, so that the vehicle can be used with more flexibility during its lifetime.

DATE OF AGREEMENT AT NB RAIL PLENARY MEETING

PLE 50 – 18/05/2017

EUAR COMMENTS

PLE 50 – 18/05/2017: NO COMMENTS

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