



RECOMMENDATION FOR USE

CO-ORDINATION BETWEEN NOTIFIED BODIES
DIRECTIVE 2008/57/EC AND SUBSEQUENT AMENDMENTS
ON THE INTEROPERABILITY OF THE RAIL SYSTEM WITHIN
THE UNION

RFU-PRM-073

Issue01
Date 04/12/2012
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| TITLE | |
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| RASTI MEASUREMENTS | |
| ORIGINATOR | SUBJECT RELATED TO |
| SG INFRASTRUCTURE / ARSENAL RACE | TSI PRM 2008/164/EC SUBSYSTEM INFRASTRUCTURE |
| DESCRIPTION AND BACKGROUND EXPLANATION | |
| <p>Background</p> <p>The TSI PRM refers for the subsystem Infrastructure to the RASTI level for spoken information.</p> <p><u>4.1.2.12. Spoken information</u></p> <p>The spoken information shall have a minimum RASTI level of 0.5, in accordance with IEC 60268-16 part 16, in all areas.</p> <p>Problem</p> <p>The measurement according to RASTI is intended for rooms. RASTI means Room Acoustics Speech Transmission Index. According to 3.4 of IEC 60268-16 RASTI measurement is only used for direct communication between people without any communication system.</p> <p>The RASTI measurement is not the correct procedure to measure spoken information on platforms and in large station halls from loud speakers or other communication systems. Therefore, the term “in all areas” needs to be clarified.</p> <p>The limitations of the RASTI-procedure are listed in IEC 60268-16 in section 4.5.3. In 4.5.3 e) is required that the background noise shall be free from hearable notes and free from explicit peaks or depressions within the octave-band-spectrum. Background noise with explicit peaks or depressions from the close-by environment cannot be eliminated around Station areas like platforms and station concourses. In 4.5.3 f) is required a background noise which is free from impulses and discrete echoes, especially free from flutter echo whose repetition rate would be whole-number multiple of the modulation frequencies. Background noise with free impulses cannot be eliminated around station areas like platforms and station concourses. Just as echoes, especially in closed station concourses with glasswalls cannot be eliminated. On the contrary areas like station concourses are areas where reverberation sound are topics to deal with. The limitations for a correct RASTI measurement are very strict. Consequently, the RASTI measurement is very often not possible according to the limitations in the IEC 60268-16 section 4.5.3. Moreover in the new edition of the IEC 60238-16:2011 is stated: RASTI has become obsolete and should not be used.</p> | |

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RFU PROPOSAL

Solution:

NB Rail proposes to use the RASTI measurement in all areas, where according to the IEC 60268-16 a RASTI measurement is appropriate. This is only applicable for direct communication between people, e.g. for the manual ticket sales counters, information desks and customer assistance points (see 4.1.2.9 of TSI PRM).

Spoken information from loudspeakers or other communication systems do not have to be assessed according to RASTI.

DATE OF AGREEMENT AT NB RAIL PLENARY MEETING

06 February 2013