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Economic Commission for Europe**Inland Transport Committee****Working Party on Inland Water Transport****Working Party on the Standardization of Technical
and Safety Requirements in Inland Navigation****Fifty-second session**

Geneva, 14-16 February 2018

Item 6 (b) of the provisional agenda

**Standardization of technical and safety requirements in inland navigation:
Signs and Signals on Inland Waterways (SIGNI) (Resolution No. 22, revision 2)**

**Signs and Signals on Inland Waterways (SIGNI) (Resolution
No. 22, revised): Draft Chapter 14 “Regional and national
special requirements”**

Note by the secretariat**Mandate**

1. This document is submitted in line with cluster 5: Inland Waterway Transport, paragraph 5.1 of the programme of work 2018–2019 (ECE/TRANS/SC.3/2017/24) to be adopted by the Inland Transport Committee at its eightieth session (20-23 February 2018).
2. At its sixty-first session, the Working Party on Inland Water Transport (SC.3) began considering the third revision of the Signs and Signals for Inland Waterways (SIGNI) (Resolution No. 22, revision 2) (ECE/TRANS/SC.3/2017/11/Rev.1) and decided that the overview of national and regional special provisions for signs and signals on the inland waterways that differ from SIGNI (ECE/TRANS/SC.3/2017/12) could be a basis for a chapter on special national and regional requirements. The secretariat was asked to prepare the first draft (ECE/TRANS/SC.3/205, para. 48).
3. The Working Party on the Standardization of Technical and Safety Requirements in Inland Navigation (SC.3/WP.3) may wish to consider the draft Chapter 14, “Regional and national special requirements” as contained in the annex to the present document and decide as appropriate. Here, SC.3/WP.3 may wish to consider whether some deviations,

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unless explicitly identified, may seriously affect navigation safety and, as such, should not be included in SIGNI.

Annex

Draft Chapter 14 “Regional and national special requirements”

14.1 Chapter 1, General

14.1.1 The competent authorities may omit, complement or modify the provisions of Chapters 1-13 and, in particular, the provisions listed in this Chapter, when this is required by the conditions of navigation. In this case, they shall report on these differences to the Working Party on Inland Water Transport (SC.3).

14.1.2 The competent authorities shall also report to SC.3 the additional local requirements existing in their region or on a particular river section.

14.1.3 Paragraph 1.1.8: the competent authorities may use marks, supplementary to those indicated in Article 1.1.1, for marking on a particular waterway or a waterway network, provided that their shape, colour and symbols used are consistent with the provisions of SIGNI, and they cannot be confused with the marks provided by SIGNI.

14.1.4 Paragraph 1.3.1: the competent authorities may prescribe other shapes for boards bearing special signs:

- (a) Round;
- (b) Triangular;
- (c) Diamond;
- (d) Trapezoidal;
- (e) A combination of two shapes indicated above.

14.2 Chapter 2, Visibility of signs and lights

14.2.1 Paragraph 2.2.2: the competent authorities may prescribe special provisions for the minimal dimensions of signs and boards provided that they ensure adequate navigation safety.

14.2.2 Paragraph 2.2.3: if the minimum height between the water surface and the lower rim of the board of the lowest sign of 1.5 m cannot be met due to local conditions, the competent authorities may prescribe other requirements to ensure proper visibility.¹

14.2.3 Paragraph 2.2.7: the competent authorities may prescribe other provisions provided that they ensure adequate navigation safety.²

14.2.4 Paragraph 2.3.2: the competent authorities may apply other norms for the determination of the luminous intensity and the range of lights:

- (a) Recommendation on the Determination of the Luminous Intensity of Marine Aid-to-Navigation Lights, December 1977, IALA³ Bulletin No. 75-1978-3;

¹ Note of the secretariat: footnote 2 to paragraph 2.2.3 should be deleted.

² Note of the secretariat: footnote 3 to paragraph 2.2.7 should be deleted.

- (b) IALA Recommendations E-200 on Marine Signal Lights;⁴
- (c) Interstate Standard GOST 26600-98 “Navigation signs for inland waterways. General specifications”.

14.3 Chapter 3, Buoyage and marking of the waterway

14.3.1 Paragraph 3.1.2: the competent authorities may apply temporary signs and marking:

- (a) flood marks in the spring;
- (b) temporary marks at critical water levels;
- (c) orientation marks;
- (d) replacing of buoys with light signals by buoys fitted with radar reflectors.

14.3.2 Paragraphs 3.2.1 and 3.2.2: the competent authorities may prescribe other colours and/or shapes of floating marks for the waterway limits:

- (a) white and/or black colours of buoys for marking the left-hand side of the fairway;
- (b) white and/or yellow colours of lights for marking the left-hand side of the fairway;
- (c) other shapes of floating signs.

14.3.3 Paragraph 3.2.3: the competent authorities may prescribe other colours and/or shapes of floating marks for the bifurcation of the waterway:

- (a) red and white or red and black colours of bands; bands may be vertical;
- (b) white, yellow or red colour of lights;
- (c) paired red and white marks.

14.3.4 Section 3.3: the competent authorities may apply special provisions for marking of danger points and obstacles:

- (a) shapes of marks and other colours of lights other than indicated in paragraphs 3.3.1-3.3.3;
- (b) different marking of danger points and obstacles:
 - (i) without requiring vessels under way to move in a particular direction;
 - (ii) when prescribing the side for the passage of vessels;
 - (iii) when requiring vessels under way to avoid causing wash.

14.3.5 Section 3.4: for the indication of the position of the fairway using the bank marks, the competent authorities may prescribe:

- (a) other colours and/or shapes of the bank marks for indicating the position of the fairway near the right and left banks;
- (b) paired cross-over marks having other shapes and colours of boards and/or other colours and types of lights for marking of cross-overs;

³ The International Association of Marine Aids to Navigation and Lighthouse Authorities.

⁴ *Note of the secretariat*: footnote 4 to paragraph 2.3.2 should be deleted.

- (c) yellow signal rafts;
- (d) special marks for visualization on electronic charts.

14.4 Chapter 5, Lights

14.4.1 Paragraph 5.1.1: the competent authorities may use other documents for the determination of the colour of lights:

- (a) CIE Publication No. 2.2-1975 (TC-1.6);
- (b) IALA Recommendation E-200;
- (c) Interstate Standard GOST 26600-98 “Navigation signs for inland waterways. General specifications”.

14.4.2 Paragraph 5.2.2: the competent authorities may prescribe special meanings to signals given by fixed lights as compared to those given in table 5.1.

14.4.3 Paragraph 5.5.2: the competent authorities may prescribe special signalling systems for semaphores on a particular waterway section, on floating bridges, etc. Such systems may comprise signal marks, in addition to lights.

14.4.4 Section 5.3: the competent authorities may use other types of rhythmic lights in addition to, but not contradicting with those in Appendix 4.⁵

14.5 Chapter 6, Installation of signs and marking in characteristic sections of the river

14.5.1 Paragraphs 6.2.10 and 6.3.3-6.3.5: the competent authorities may use special signs and marks and apply special requirements for their installation:

- (a) On meandering sectors;
- (b) On shoals;
- (c) For the indication of the fairway (see paragraph 14.3.5).

14.6 Chapter 7, Marking of harbour entrances

14.6.1 Paragraph 7.4: the competent authorities may apply special signs and marks:

- (a) For entrances to harbours and canals;
- (b) For marking of the berthing area limits.

14.7 Chapter 8, Marking of permanent structures

14.7.1 Section 8.2: the competent authorities may apply special marking in the navigable pass of the bridge:

- (a) Of the fairway axis;
- (b) Of the waterway limits and the under-bridge clearance height.

14.7.2 Section 8.3: the competent authorities may apply special light signals and marking for movable bridges.

14.7.3 Section 8.4: the competent authorities may apply other colours of light signals for locks.

⁵ Example: Interstate Standard GOST 26600-98 “Navigation signs for inland waterways. General specifications”.

14.8 Chapter 9, Blockage of the waterway

14.8.1 Chapter 9: the competent authorities may apply other signs for the stoppage of navigation:

- (a) Sign A1 on a yellow buoy (for complete stoppage of navigation);
- (b) Special signs ("Semaphore").

14.9 Chapter 10, Marking of prohibited or restricted zones

14.9.1 Chapter 10: the competent authorities may provide special instructions about prohibited or restricted zones on pilot charts instead of/in addition to yellow buoys.

14.10 Chapter 12, Installation of radar reflectors

14.10.1 Section 12.1: the competent authorities may require the installation of radar reflectors on marking signs and signals:

- (a) For floating marks only;
 - (b) For signs and marks of special construction;
 - (c) For waterways for navigation using a radar.
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