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Working Party on Inland Water Transport

Working Party on the Standardization of Technical and Safety Requirements in Inland Navigation

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Geneva, 22–24 June 2016

Item 5 (b) of the provisional agenda

Inland waterways infrastructure: Inventory of Main Standards and Parameters of the E Waterway Network (“Blue Book”)

Third revision of the Inventory of Main Standards and Parameters of the E Waterway Network (“Blue Book”)

Transmitted by the Governments of Belarus, Belgium, Germany and Lithuania

A. Belarus

Page 3, Strategic bottlenecks, line 2

Modify the entry for Dneprovsko-Bugskiy Canal

Dneprovsko-Bugskiy Canal (E 40) from Kobrin to Pererub — low maximum draught (1.70 m); upgrading of locks to class Va is envisaged.

Add a footnote:

Upgrading of lock No. 3 Ragodosch was started in 2015, the startup is planned for 2019; upgrading of lock No. 4 Ovzichi is planned for 2019–2020.

Page 30, table 1, E 40

Lines 8 to 11 (MUKHOVETS to PRIPYAT), column 8

Indicate Va in the first line

Lines 8 and 11 (MUKHOVETS and PRIPYAT), column 8

In the second line *replace* the current value *by* Va

Page 59, table 2, E 40

Replace lines 3 to 6 (MUKHOVETS to PRIPYAT) *by*

E WATERWAY	SECTION OF E WATERWAY	DIMENSION OF LOCKS			COMMENTS
		LENGTH (m)	WIDTH (m)	DEPTH AT SILLS (m)	
E 40	MUKHOVETS Brest – Kobrin	120.0	12.90	2.40/2.70	Lock No. 10 Trishin
		120.0	12.70	2.75/2.40	Lock No. 9 Novosady
		120.0	12.90	2.50/2.70	Lock No. 8 Zaluzje
E 40	DNEPROVSKO – BUGSKIY KANAL Kobrin – Pererub	120.0	12.70	2.70/2.55	Kobrin lock
		79.80	11.10 ¹²	4.10/2.17	Lock No. 5 Lyakhovichi
		79.85	11.10 ¹²	3.80/2.00	Lock No. 4 Ovzichi
		79.85	11.10	3.85/1.95	Lock No. 3 Ragodosch
		80.0	11.30 ¹²	3.90/1.76	Lock No. 2 Pererub
PINA Pererub – Pinsk	120.0	12.70	2.45/2.60	Lock No. 1 Duboy	
	PRIPYAT Pinsk – Stakhovo	110.0	11.90	4.40/2.20	Lock No. 11 Kachanovichi
		110.0	12.00	5.20/2.20	Lock No. 12 Stakhovo

B. Belgium

Page 4, Basic bottlenecks

Add after Gent — Oostende Canal the fourth line

Plassendale — Nieuwpoort Canal (E 02–02–01)

Modify the entry for Charleroi — Bruxelles Canal (E 04), Lembeek — Bruxelles section:

Charleroi-Bruxelles Canal (E 04), Lembeek — Bruxelles section — upgrading the height under bridges up to 7 m and improvement of the waterway is required. Project is under study.

Page 4, Strategic bottlenecks

Modify the entry for Sea Canal Bruxelles — Schelde (E 04):

Sea Canal Bruxelles — Schelde (E 04) — improvement of section Wintam — Willebroek **to class Vb**. Project is under way.

Modify the entry for Boven-Schelde (E 05):

Boven-Schelde (E 05), **Kerkhove — Asper section — renewal of weirs and upgrading lock capacity to class Vb**. Project is under study.

Modify the entry for Boven— Zeeschelde (E 05):

Boven-Zeeschelde (E 05) on section Gent circular canal — Baasrode — upgrading from class IV to class Va. **Project** is under study.

Add

Charleroi-Bruxelles Canal (E 04), Lembeek — Bruxelles section — upgrading the waterway and the locks to class Va. Project is under study.

Page 15, table 1

Modify footnote ****

In the middle of the bridge with due regard of the fairway and the shape of the bridge; it takes into account the security clearance of about 30 cm between the uppermost point of the vessel's structure or its load and a bridge.

Page 17, table 1, line 4

Modify lines 2 to 8

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 02	GENT – OOSTENDE CANAL Brugge – Beernem	13.8	86.0	10.20/10.20	2.50	7.50	IV	B	
			86.0	10.20/10.20	2.50	7.29	IV	B	
	GENT – OOSTENDE CANAL Beernem – Schipdonk	18.4	100.0/100.0	10.20/10.20	2.70	7.00	IV	B	
			100.0/100.0	10.20/10.20	2.70	7.26	IV	B	
	LEIE BYPASS CANAL Schipdonk – Deinze	14.9	185.0/185.0	11.50/11.50	3.50	7.50	Vb	A	Seine-Escaut link
			110.0/110.0	11.50/11.50	2.80	7.60	Va	A	
	LEIE Deinze – Ooigem	15.5	185.0/185.0	11.50/11.50	3.50	7.00	Vb	A	Seine-Escaut link
			110.0/110.0	11.50/11.50	2.80	7.08	Va	A	
	LEIE Ooigem – Harelbeke lock	5.6	185.0/185.0	11.50/11.50	3.50	7.00	Vb	A	Seine-Escaut link
			110.0/110.0	11.50/11.50	2.80	5.63	Va	C	
	LEIE Harelbeke lock – Halluin	17.1	185.0/185.0	11.40/11.40	3.50	7.00	Vb	A	Seine-Escaut link
			110.0	9.60/9.60	2.50	5.06	IV	C	
	LYS MITOYENNE Halluin – Wervik	9.1	185.0/185.0	11.40/11.40	3.50	7.00	Vb	A	Seine-Escaut link
			110.0	9.60	2.40	4.75	IV	C	

Page 18, table 1

Modify lines 1, 5 - 8 (E 02, E 02-02 and E 02-02-01)

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 02	LYS MITOYENNE Belgian Commune of Comines	8.7	185.0/185.0	11.40/11.40	2.50	7.00	Vb	A	
			110.0/110.0	9.60/9.60	2.40	4.73	IV	C	
E 02-02	GENT – OOSTENDE CANAL Brugge – Oostende	17.0	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
			110.0/110.0	11.50/11.50	2.50	5.50	Va	B	
E 02-02-01	PLASSEDALE – NIEUWPOORT CANAL Plassendale – Gistelbrug	21.0	85.0/85.0	9.50/9.50	2.50	7.00	IV	B	
			38.5/38.5	5.10/5.10	2.00	5.28	I	C	
	PLASSEDALE – NIEUWPOORT CANAL Gistelbrug – Snaaskerke	85.0/85.0	9.50/9.50	2.50	7.00	IV	B		
		38.5/38.5	5.10/5.10	2.00	5.17	I	C		
	PLASSEDALE – NIEUWPOORT CANAL Snaaskerke – Nieuwpoort	85.0/85.0	9.50/9.50	2.50	7.00	IV	B		
		38.5/38.5	5.10/5.10	2.00	5.17	I	C		

Replace line 4 (E 02-04) by

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 02-04	CANAL ROESELARE – LEIE downstream Bruanebrug	15.4	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
			110.0/110.0	11.50/11.50	2.80	5.07	Va	B	
	CANAL ROESELARE – LEIE upstream Bruanebrug	1.1	86	9.60	2.80	6.14	IV		
			86	9.60	2.80	6.14	IV		

Page 19, table 1, line 2

Modify line 9 (line 7 of E 04)

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 04	CHARLEROI – BRUXELLES CANAL Bruxelles – Clabecq	21.6	81.3/81.3	10.30/10.30	3.00	7.00	IV	B	Canal
			81.3	10.30	2.50	4.60	IV	C	

Page 20, table 1, line 1

Modify lines 1 – 4

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 05 (continued)	BOVEN-SCHELDE	5.6	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
	Herinnes – Bossuit		110.0/110.0	11.50/11.50	2.60	7.57	Va	B	
	BOVEN-SCHELDE	30.6	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
	Bossuit – Asper Lock		110.0/110.0	11.50/11.50	2.60	7.11	Va	B	
	BOVEN-SCHELDE	14.6	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
	Asper Lock – Gent Circular Canal		110.0/110.0	11.50/11.50	3.00	7.42	Va	A	
	GENT CIRCULAR CANAL	1.0	110.0/110.0	11.50/11.50	3.00	7.00	Va	A	
	Boven-Schelde – Merelbeke lock – Westervak		110.0/110.0	11.50/11.50	3.00	6.98	Va	A	

Page 21, table 1

Lines 3 and 4

Modify the first and second lines

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 05-01	CANAL BOSSUIT – KORTRIJK	12.7	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
	Bossuit – Zwevegem		110.0/110.0	11.50/11.50	2.60	5.26	Va	C	
	CANAL BOSSUIT – KORTRIJK	2.5	110.0/110.0	11.50/11.50	3.50	7.00	Va	A	
	Zwevegem – Kortrijk		38.5/38.5	5.10/5.10	1.80	3.91	I	C	
E 05-04	DENDER	11.7	110.0/110.0	9.50/9.50	3.00	7.00	IV	B	
	Aalst Lock – calibrated section of Dendermonde		55.0/55.0	7.50/7.50	2.50	3.97	II	C	
	DENDER Calibrated section of	2.0	110.0/110.0	11.50/11.50	3.00	7.00	Va	A	
	Dendermonde – Dendermonde Lock (incl.)		110.0/110.0	11.50/11.50	2.50	8.11	Va	A	

Line 5

Modify Rupel, lines 1 and 2

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 05-06	RUPEL	11,8	110.0/110.0	11.50/11.50	4	31.00	Va	A	
			110.0/110.0	11.50/11.50	4	31.00	Va	A	

Page 21, table 1

Line 7 (the last line)

Modify lines 1 and 2

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 07	GENT – OOSTENDE CANAL Gent Circular Canal – Lovendegem (Bierstalkade)	1.7	185.0/185.0	11.50/11.50	3.50	7.50	Vb	A	Seine – Escaut link
			110.0/110.0	11.50/11.50	3.00	No restrictions	Va	A	
	GENT – OOSTENDE CANAL Lovendegem (Bierstalkade)– Schipdonk	5.2	185.0/185.0	11.50/11.50	3.50	7.50	Vb	A	Seine – Escaut link
			110.0/110.0	11.50/11.50	2.80	9.07	Va	A	

Page 22, table 1

Line 1

Modify line 2

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT **	COMMENTS
			LENGTH (m)	WIDTH (m)	DRAUGHT (m)				
E 07	LEIE BYPASS CANAL Schipdonk – Maldegem	13.4	185.0/185.0	11.40/11.40	3.50	7.00	Vb	A	
			38.50/38.50	5.10/5.10	1.60	4.36	I	C	

Page 55, table 2

Line 5, columns 2 – 6, line 5

Replace by

E WATERWAY	SECTION OF E WATERWAY	DIMENSION OF LOCKS			COMMENTS
		LENGTH (m)	WIDTH (m)	DEPTH AT SILLS (m)	
E 03	GENT CIRCULAR CANAL	230.0	25.00	5.00	Lock 1
		136.0	16.00	3.80	Lock 2

Page 68, table 3

Replace lines 7, 10, 11, 15, 18 and 22 by:

E PORTS		CARGO HANDLING CAPACITY			CARGO HANDLING EQUIPMENT AVAILABLE FOR			RAIL ACCESS **	OTHER CHARACTERISTICS AND COMMENTS
		0.5–3.0 million tonnes	3.0–10.0 million tonnes	> 10.0 million tonnes	CONTAINERS **		RO-RO **		
					20'	40'			
P 02–02	Aalter (Gent – Oostende Canal, 22.5 km)	X			-	-	-	-	
P02-04-01	Roeselare (Roeselare-Leie Canal, 0.5 km)		X		-	-	-	-	
P02-04-02	Izegem (Roeselare-Leie Canal, 6.4 km)		X		-	-	-	-	
P03-04	Gent (Gent-Terneuzen Canal, 4.6 km)	X			-	-	-	-	
P04-03	Ruisbroek (Charleroi-Bruxelles Canal, 58.8 km)	X			-	-	-	-	
P05-01	Avelgem (Boven-Schelde, 35.7 km)	X			X	X	-	-	

Page 69, table 3

Modify the entry for P05-01-01 and line 6:

E PORTS		CARGO HANDLING CAPACITY			CARGO HANDLING EQUIPMENT AVAILABLE FOR			RAIL ACCESS **	OTHER CHARACTERISTICS AND COMMENTS
		0.5–3.0 million tonnes	3.0–10.0 million tonnes	> 10.0 million tonnes	CONTAINERS **		RO-RO **		
					20'	40'			
P05-01-01	Bossuit Kortrijk (Bossuit-Kortrijk Canal, 7.6 km)		X		-	-	-	-	Building materials, petroleum products and metal ores. Agricultural products, food products and chemicals
P05-04-01	Aalst (Dender, 53.7 km)	X			-	-	-	-	

C. Germany

Page 7, Basic bottlenecks

Delete the first paragraph

Modify paragraph 5

Berlin region waterways (~~various sections~~ **connection to Westhafen Berlin**) upgrading to classes IV and Vb is under way.

Modify paragraph 6

Havel — Oder — Wasserstraße (E 70) — upgrading from class IV to class Va is under way ~~to enable navigation of vessels with two layers of containers.~~

Strategic bottlenecks

Modify paragraphs 1 and 2

Rhine (E 10) — low fairway depth during dry seasons: ~~downstream from Duisburg (2.50 m) and from St. Goar to Mainz (1.90 m) and low height under bridges at Kehl/Strasbourg (6.75 m).~~

Rhine — Herne Kanal (E 10-03) — upgrading to class Vb is under way ~~on sections which have not yet been modernized.~~

Modify paragraphs 4 and 5

Weser (E 14) from 360.7 km to Minden — ~~low fairway depth (2.50 m)~~
upgrade to Va under way.

Elbe (E 20): ~~lower Elbe — need for lifting of bridges for container transport with three layers of containers;~~ middle Elbe from Lauenburg upstream to the border between Germany and the Czech Republic — low fairway depth during dry seasons (~~1.40~~ **1.20** m).

Delete paragraph 6

Modify paragraphs 7 and 8

Main (E 80) upstream from Würzburg — low fairway depth (2.50 m);
project is under way.

Danube (E 80) from Straubing to Vilshofen — low fairway depth (~~1.55 m~~
2.00 m at LNWL¹).

Delete paragraph 9

Modify paragraphs 10 and 11

Danube (E 80) — low height under bridges at Bogen (2,311.27 km) — 5.00 m; at Passau (2,225.75 km) — 5.15 m ~~and (2,230.28 km) — 6.30 m~~ — upgrading to 7.00 m is necessary.

Weser (E 14) — upgrading of Minden and Dörverden Locks **is under way.**

Page 8 Other bottlenecks, the elimination of which is anticipated to become economically viable only in the framework of a replacement programme supported by a particular investment scheme

Modify paragraph 1

Dortmund — Ems Kanal (E 13) to the north of the Mittellandkanal — ~~a number of locks have a width of only 10.00 m.~~

Modify paragraph 3

Neckar (E 10-07) — adaptation of fairway width and lock dimensions ~~to class Va waterway~~

Modify paragraph 4

Canals branching off from the Mittellandkanal (E 70-02, ~~70-04~~ and 70-06) — low fairway depth and height under bridges (~~2.00 m and 4.00 m,~~ ~~respectively~~), insufficient dimensions of locks.

¹ Low Navigable Water Level; see the explanations to Table 1, page 13.

Delete paragraph 5

D. Lithuania

Page 9, Basic bottlenecks

Add the footnote

Nemunas (E 41): insufficient depth of the fairway stretch along 100 km of Nemunas river stretch in the border area and on the territory of the Russian Federation.

Page 32, table 1, line 2 E 41

Replace by

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES** (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT**	COMMENTS
E 41	CURONIAN LAGOON AND NEMUNAS Klaipeda seaport – Nida – Nemunas mouth	65.3	110.0/110.0	12.00/12.00	1.80	No restrictions	IV	A	
			100.0/100.0	10.00/10.00	1.30	No restrictions	IV	A	
	NEMUNAS Nemunas mouth – Rusnė	13	110.0/110.0	12.00/12.00	1.80	7.50	IV	B	
			100.0/100.0	10.00/10.00	1.30	7.50	IV	B	
	NEMUNAS Rusnė – Smalininkai (Lithuania/Russian Federation State border)	100	110.0/110.0	12.00/12.00	1.80	2.50	IV	C	
			100.0/100.0	10.00/10.00	1.30	2.50	IV	C	
	NEMUNAS Smalininkai – Jurbarkas	13	110.0/110.0	12.00/12.00	1.80	10.80	IV	A	
			100.0/100.0	10.00/10.00	1.30	10.80	IV	A	
NEMUNAS Jurbarkas – Kaunas	99.9	110.0/110.0	12.00/12.00	1.80	3.40	IV	C		
		100.0/100.0	10.00/10.00	1.00	3.40	IV	C		

Delete a cross-reference to endnote 44 in column 6 of line 2 (DRAUGHT 1.30).

Page 38, table 1, line 10

Replace by

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES** (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT**	COMMENTS
E 70	CURONIAN LAGOON	77.9 ^{Error! Bookmark not defined.}	.../...	.../...	...	No restrictions	IV	A	
	Mouth of Dayma ² – Lithuania/Russian Federation State border		.../...	.../...	...	No restrictions	IV	A	

² Note of the secretariat: *replace Dayma by Deyma in the whole text.*

E WATERWAY	SECTION OF E WATERWAY	LENGTH (km)	MAXIMUM DIMENSIONS OF VESSELS AND PUSHED CONVOYS WHICH MAY BE ACCOMMODATED			MINIMUM HEIGHT UNDER BRIDGES** (m)	CLASS	SUITABILITY FOR COMBINED TRANSPORT**	COMMENTS
	CURONIAN LAGOON	4	.../...	.../...	1.80	No restrictions	IV	A	
	Lithuania/Russian Federation State border – Nida		.../...	.../...	1.30	No restrictions	IV	A	
	CURONIAN LAGOON	39.1	110.0/110.0	12.00/12.00	1.80	No restrictions	IV	A	
	Nida – Klajpeda sea port		100.0/100.0	10.00/10.00	1.30	No restrictions	IV	A	

Page 75, table 3

Line 10, column 2

Replace Uostadvaris (Nemunas, 61.3 km)³ *by* Uostadvaris (Nemunas river mouth).

Line 11, column 9

Delete x

Add a new line after line 11

E PORTS		CARGO HANDLING CAPACITY			CARGO HANDLING EQUIPMENT AVAILABLE FOR			RAIL ACCESS**	OTHER CHARACTERISTICS AND COMMENTS
		0.5–3.0 million tonnes	3.0–10.0 million tonnes	> 10.0 million tonnes	CONTAINERS**		RO-RO**		
					20'	40'			
P 41-05	Kaunas winter port (Nemunas, 210.0 km)	x			-	-	-	-	

Replace Kurshskiy Zaliv *by* Curonian Lagoon in the whole text³.

³ Note of the secretariat: English text only.