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Item 6 (b) of the Provisional agenda

Proposals for amendments to annexes A and B of ADR:**Miscellaneous proposals****Proposal for tunnel restriction codes for non-exempted vehicles, engines and machinery, UN Nos. 3166, 3171, 3528, 3529 and 3530****Transmitted by the Government of Switzerland¹***Summary*

Executive summary:	Assign tunnel restriction codes to entries under UN Nos. 3166, 3171, 3528, 3529 and 3530 that cannot be exempted under special provisions 363 or 666.
Action to be taken:	Amend column (15) of Table A in Chapter 3.2.
Background documents:	ECE/TRANS/WP.15/230, ECE/TRANS/WP.15/AC.1/2016/15

Introduction

1. At its last session, the Working Party (WP.15) noted that the texts adopted for 2017 contained no information in column (15) of Table A of Chapter 3.2 regarding the transport category and tunnel restriction code for UN Nos. 3166, 3171 and 3528-3530 (ECE/TRANS/WP.15/230, para. 22).

¹ In accordance with the draft programme of work of the Inland Transport Committee for 2016-2017 (ECE/TRANS/WP.15/2015/19 (9.2)).



2. The Joint Meeting will have to decide on the transport category but it is for WP.15 to assign tunnel restriction codes to entries under UN Nos. 3166, 3171, 3528, 3529 and 3530. Vehicles and equipment are exempt under special provision 666 and engines and machinery under special provision 363. However, in certain cases it may be that the conditions for exemption cannot be met, in which case the provisions of ADR will apply. In that regard packing instruction P005 has been created for UN Nos. 3528, 3529 and 3530 for circumstances in which the requirements of special provision 363 cannot be met. Even though such cases may be rare, there must be tunnel restrictions for vehicles, engines and machinery that are to be carried in accordance with all the rules of ADR, and that is why we are submitting this proposal.

3. The difficulty with assigning tunnel restriction codes is that entries do not relate to a specific fuel type. Entries include vehicles that may have metal hydride storage systems, gas or liquid fuel internal combustion engines, hybrid electric vehicles powered by both a fuel cell and an internal combustion engine with wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, transported with the batteries installed (UN No. 3166) or battery-powered equipment only applies to vehicles powered by wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries and equipment powered by wet batteries or sodium batteries transported with these batteries installed (UN No. 3171). Engines and machinery may contain liquid fuel (UN No. 3528), gas (UN No. 3529) or other environmentally hazardous liquids (UN No. 3530).

4. Because of the wide range of engine types, entries may contain various kinds of dangerous goods to which various transport categories and tunnel restriction codes apply:

UN No.	Transport category (Tunnel restriction code)
1202	3 (D/E)
1203	2 (D/E)
1965, 1971 et 1972	2 (B/D)
2794, 2795 et 2800	3 (E)
3090, 3091, 3480 et 3481	2 (E)
3468	2 (D)

5. All these types of dangerous goods may be found on a vehicle, or in an engine or machinery and each type should in principle have a specific tunnel restriction code depending on the fuel.

6. In assigning a tunnel restriction code the scope of restrictions also needs to be taken into account. For vehicles the definitions in special provisions 240 and 385 need to be considered. These special provisions include locomotives, boats and aircraft, which may contain large quantities of fuel. As to machinery and engines, consideration needs to be

given to the fact that, on the one hand, they may contain unlimited quantities of fuel, in accordance with special provision 363, and on the other hand there is a packing instruction (P005) for engines and machinery that do not meet the exemption conditions in special provision 363. Thus vehicles that do not meet the exemption conditions in special provision 666 and engines and machinery that do not meet the exemption conditions in special provision 363 are subject to all the requirements of ADR and in that case the transport units must bear orange-coloured plate marking. For such cases the restrictions for passage through tunnels should be entered in column (15) of Table A of Chapter 3.2.

7. Taking into account the fuels listed in paragraph 3 above, and applying the strictest conditions, vehicles under UN No. 3166, which may contain hybrid engines, should be assigned transport category 2 and tunnel restriction code (B/D); vehicles under UN No. 3171 which contain only wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries and equipment powered by wet batteries or sodium batteries, should be assigned transport category 2 and tunnel restriction code (E). For engines and machinery under UN Nos. 3528, 3529 and 3530, with the same characteristics, transport category 2 and tunnel restriction codes (D/E) and (B/D) will apply to UN Nos. 3528 and 3529 and transport category 3 and tunnel restriction code (E) to UN No. 3530.

Proposal

(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a)	(7b)	(8)	(...)	(15)	(16)	(17)	(18)	(19)	(20)
3166	ENGINE, INTERNAL COMBUSTION, FLAMMABLE LIQUID POWERED or ENGINE, FUEL CELL, FLAMMABLE LIQUID POWERED or MACHINERY, INTERNAL COMBUSTION, FLAMMABLE LIQUID POWERED or MACHINERY, FUEL CELL, FLAMMABLE LIQUID POWERED	9	M11			312 385 666 667					<u>2</u> <u>B/D</u>					
3171	BATTERY-POWERED VEHICLE OR BATTERY-POWERED EQUIPMENT	9	M11			240 666 667					<u>2</u> <u>E</u>					
3528	ENGINE, INTERNAL COMBUSTION, FLAMMABLE LIQUID POWERED or ENGINE, FUEL CELL, FLAMMABLE LIQUID POWERED or MACHINERY, INTERNAL COMBUSTION, FLAMMABLE LIQUID POWERED or MACHINERY, FUEL CELL, FLAMMABLE LIQUID POWERED	3			3	363 667	0	E0	P005		<u>2</u> <u>D/E</u>					
3529	ENGINE, INTERNAL COMBUSTION, FLAMMABLE GAS POWERED or ENGINE, FUEL CELL, FLAMMABLE GAS POWERED or MACHINERY, INTERNAL COMBUSTION, FLAMMABLE GAS POWERED or MACHINERY, FUEL CELL, FLAMMABLE GAS POWERED	2			2.1	363 667	0	E0	P005		<u>2</u> <u>B/D</u>					
3530	ENGINE, INTERNAL COMBUSTION or MACHINERY, INTERNAL COMBUSTION	9			9	363 667	0	E0	P005		<u>3</u> <u>E</u>					