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**Committee of Experts on the Transport of Dangerous Goods  
and on the Globally Harmonized System of Classification  
and Labelling of Chemicals****Sub-Committee of Experts on the Transport of Dangerous Goods****Thirty-seventh session**

Geneva, 21–30 June 2010

Item 4 of the provisional agenda

**Electric storage systems****Amendment to Special Provision 240****Transmitted by the expert from Germany<sup>1</sup>****Introduction**

1. At the last session of the Sub-Committee, the expert from Germany presented a proposal for amendment of Special Provision 240 (ST/SG/AC.10/C.3/2009/35) in order to create a clear assignment of equipment with lithium batteries to UN 3171 BATTERY-POWERED VEHICLE or BATTERY-POWERED EQUIPMENT or UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT and UN 3481 LITHIUM BATTERIES CONTAINED IN EQUIPMENT respectively. The matter was discussed during a lunch time working group (informal document INF.57). As a result it was agreed, that entry UN 3171 should cover vehicles powered by all three mentioned types of batteries (sodium, wet and lithium batteries) and equipment with sodium or wet batteries only. Equipment powered by lithium batteries should be assigned to UN 3091 or UN 3481, as appropriate.

2. Equipment powered by lithium batteries has to be packed in accordance with Packing Instruction P 903. Consequently an amendment of P 903 was regarded as necessary in order to allow a not type-approved packaging or unpackaged transport if the lithium battery does not exceed the gross mass of 12 kg, but the equipment containing the battery is too large for an approved packaging.

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<sup>1</sup> In accordance with the programme of work of the Sub-Committee for 2009–2010 approved by the Committee at its fourth session (refer to ST/SG/AC.10/C.3/68, para. 118 (c) and ST/SG/AC.10/36, para. 14).

3 The Sub-Committee agreed to include the texts proposed by the working group as adopted texts in the report, but in square brackets for further discussion at the next session for clarification in particular of the meaning of the terms “vehicle” and “large equipment”.

4 It is proposed that the term vehicle should cover all means of conveyance and mobility devices and should not be limited to vehicles as defined in 1.2.1. But the term and, as a consequence, the exemption from dangerous goods provisions if not transported by air according to SP 106 should be limited to means of conveyance and mobility devices that:

- (a) Are designed for the purpose of locomotion and /or transport; and
- (b) Are allowed to be used on public roads, tracks and waterways.

Consequently the term vehicle in SP 240 would cover motorcycles, motor scooters, quads and trike bikes (described as three and four wheeled vehicles and motorbikes), E-Bikes, wheel-chairs and crafts. Working machines powered by lithium batteries like cleaning machines or lawnmowers would be assigned to UN 3091 and 3481 respectively.

5 A definition of “large equipment” for the interpretation of P 903 is not necessary. Large equipment means any equipment too large to fit in a design type tested packaging. These packagings have a maximum net mass of 400 kg and a maximum capacity of 450 l.

## Proposal

6. Remove the square brackets from Special Provision 240 as agreed during the last meeting (Annex I of ST/SG/AC.10/C.3/72) and adopt the text with the following amendments:

“240 This entry 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.

Examples of such vehicles are electrically-powered cars, motorcycles, scooters, three and four wheeled vehicles or motorcycles, e-bikes, wheel-chairs and boats.

Examples of such equipment powered by sodium or wet batteries are ~~motorcycles, scooters, E bikes~~, lawnmowers or cleaning machines ~~wheelchairs or other mobility aids~~. Equipment powered by lithium metal batteries or lithium ion batteries shall be consigned under the entries UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT or UN 3091 LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT or UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or UN 3481 LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, as appropriate.

Hybrid electric vehicles powered by both an internal combustion engine and wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, transported with the battery(ies) installed shall be consigned under the entries UN 3166 VEHICLE, FLAMMABLE GAS POWERED or UN 3166 VEHICLE, FLAMMABLE LIQUID POWERED, as appropriate. Vehicles which contain a fuel cell shall be consigned under the entries UN 3166 VEHICLE, FUEL CELL, FLAMMABLE GAS POWERED or UN 3166 VEHICLE, FUEL CELL, FLAMMABLE LIQUID POWERED, as appropriate.”.

4. Remove the square brackets from the amendments to P 903 and to Special Provision 360 as agreed during the last meeting (Annex I of ST/SG/AC.10/C.3/72).