



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)  
WORKING GROUP MEETING (DGP-WG/24)**

**Montreal, 21 to 25 October 2024**

**Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods (REC-A-DGS-2027)**

**1.2: Develop proposals, if necessary, for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2027-2028 Edition**

**SPECIAL PROVISION A214 – EQUIPMENT CONTAINING SODIUM ION BATTERIES**

(Presented by B. Firkins)

**SUMMARY**

Special Provision 214 of the Technical Instructions corresponds with Provision 388 of the 23<sup>rd</sup> edition of the UN Model Regulations. Both special provisions contain examples of equipment powered by lithium ion batteries. This working paper proposes adding equipment powered by sodium ion batteries as examples in Special Provision A214 and invites the Secretary to bring a paper to the UN Sub-Committee proposing the same for Special Provision 388 of the UN Model Regulations.

**Action by the DGP-WG:** Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 The 23<sup>rd</sup> Edition of the UN Model Regulations, setting out recommendations on the Transport of Dangerous Goods, provides guidance on differentiating between equipment and vehicles. It also provides guidance on the classification of certain battery powered vehicles.

1.2 Special Provision A214 in the ICAO Technical Instructions generally replicates the text of provision 388 in the UN Model Regulations.

1.3 The 23<sup>rd</sup> edition introduced sodium ion batteries; and generally, where text referred to lithium ion batteries, or lithium batteries in general, an amendment was made which also incorporated sodium ion batteries.

1.4 The last paragraph sets out examples of the types of articles that constitute “equipment” as opposed to “vehicles”. In this differentiation, reference is made to the method of power (i.e. lithium ion batteries) and the relevant classification for “packed with” or “contained in” equipment.

## 2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to:

- a) consider amending Special Provision A214 as shown in the appendix to this working paper; and
- b) request the Secretary to propose the same amendment to the corresponding special provision in the UN Model Regulations (SP 388) to the UN Sub-Committee of Experts on the Transport of Dangerous Goods.

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APPENDIX

PROPOSED AMENDMENT TO SPECIAL PROVISION A214

Part 3

DANGEROUS GOODS LIST,  
SPECIAL PROVISIONS AND  
LIMITED AND EXCEPTED QUANTITIES

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Chapter 3

SPECIAL PROVISIONS

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Table 3-2. Special provisions

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A214 (388) UN No. 3166 entries apply to vehicles powered by flammable liquid or flammable gas internal combustion engines or fuel cells.

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Examples of equipment are lawnmowers, cleaning machines or model boats and model aircraft. Equipment powered by lithium metal batteries ~~or~~ lithium ion batteries or sodium ion batteries must be assigned to 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** or UN 3552 **Sodium ion batteries contained in equipment** or UN 3552 Sodium ion batteries packed with equipment, as appropriate. Lithium ion batteries or lithium metal batteries installed in a cargo transport unit and designed only to provide power external to the cargo transport unit must be assigned to UN 3536 **Lithium batteries installed in cargo transport unit**.

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