



WORKING PAPER

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

Montreal, 21 to 25 October 2024

Agenda Item 4: Managing safety risks posed by the carriage of lithium batteries by air (Ref: Job Card DGP.003.05)

EXCEPTIONS – DATA LOGGERS

(Presented by B. Firkins)

SUMMARY

This working paper proposes an amendment to the exceptions for data loggers and cargo tracking devices which are powered by sodium ion batteries.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 The 2025-2026 Edition of the Technical Instructions introduces a general exception for data loggers and cargo tracking devices which are powered by lithium cells and batteries, subject to the provisions, contained in the exception, being complied with.

1.2 Prior to this general exception, data loggers and cargo tracking devices were not subject to many provisions of the Technical Instructions that were contained in Packing Instructions 967 and 970.

1.3 This edition of the Technical Instructions introduces sodium ion cells and batteries contained in equipment, and in a similar fashion, through Packing Instruction 978, also does not subject them to a number of provisions of the Technical Instructions; however, there was no corresponding general exception for cargo tracking devices and data loggers containing these batteries.

1.4 A proposed amendment to Part 1;1.1.5.1 i) is proposed for consideration by the DGP.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to comment upon and consider an amendment to Part 1;1.1.5.1 i) of the Technical Instructions as presented in the appendix to this working paper.

APPENDIX

PROPOSED AMENDMENT TO PART 1 OF THE TECHNICAL INSTRUCTIONS

Part 1

GENERAL

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Chapter 1

SCOPE AND APPLICABILITY

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1.1 GENERAL APPLICABILITY

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1.1.5 General exceptions

1.1.5.1 Except for 7;4.2, these Instructions do not apply to dangerous goods carried by an aircraft where the dangerous goods are:

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- i) data loggers and cargo-tracking devices with installed lithium or sodium ion batteries, attached to or placed in packages, overpacks or unit load devices, provided the following conditions are met:
 - 1) the data loggers or cargo-tracking devices must be in use or intended for use during transport;
 - 2) each cell or battery must meet the provisions of either Part 2;9.3 a), e), f) (if applicable) and g) or Part 2;9.4 a) and e);
 - 3) for a lithium ion or sodium ion cell, the Watt-hour rating not exceeding 20 Wh;
 - 4) for a lithium ion or sodium ion battery, the Watt-hour rating not exceeding 20 Wh;
 - 5) for a lithium metal cell, the lithium content not exceeding 1 g;
 - 6) for a lithium metal battery, the aggregate lithium content not exceeding 1 g;
 - 7) the number of data loggers or cargo-tracking devices in or on any package or overpack must be no more than the number required to track or to collect data for the specific consignment;
 - 8) the data loggers or cargo-tracking devices must be capable of withstanding the shocks and loadings normally encountered during transport;
 - 9) the devices must not be capable of generating a dangerous evolution of heat; and
 - 10) the devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems.

Note.— This exception does not apply where the data loggers or cargo-tracking devices are offered for transport as a consignment in accordance with Packing Instruction 967-~~or~~ 970 or 977.

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