



Transportation of Dangerous Goods Directorate
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Direction générale du transport des marchandises dangereuses
L'Esplanade Laurier
300, avenue Laurier Ouest
Ottawa (Ontario)
K1A 0N5



Equivalency Certificate (Approval issued by the competent authority of Canada)

Certificate Number: SU 13920
Template Number: N/A
Certificate Holder: CellBlock FCS, LLC
Mode of Transport: Road, Rail, Marine
Effective Date: February 1, 2023
Expiry Date: February 28, 2028

LEGEND

For this equivalency certificate, documents referred to by an abbreviation have the following meaning:

TDG Act: *Transportation of Dangerous Goods Act, 1992*

TDG Regulations: *Transportation of Dangerous Goods Regulations*

ICAO Technical Instructions: *“Technical Instructions for the Safe Transport of Dangerous Goods by Air”*, published by the International Civil Aviation Organization (ICAO), as amended from time to time

IMDG Code: Volumes 1 and 2 of the *“International Maritime Dangerous Goods Code”*, published by the International Maritime Organization (IMO), as amended from time to time

UN Recommendations: *“Recommendations on the Transport of Dangerous Goods”*, published by the United Nations (UN), as amended from time to time

NOTES

Note 1: Subsection 31(4) of the *TDG Act* stipulates that any non-compliance with the conditions of this equivalency certificate will result in the provisions of the *TDG Act* and *TDG Regulations* to apply as though this equivalency certificate did not exist.

Note 2: This equivalency certificate provides no regulatory relief other than specifically stated herein. Therefore, all other requirements of the *TDG Act* and the *TDG Regulations* apply.

PURPOSE

(The following is for information purposes only and is not part of the certificate.)

This equivalency certificate authorizes **any person** to handle, offer for transport, transport, or import dangerous goods that are lithium ion cells or batteries or equipment containing lithium ion cells or batteries in a UN standardized 4G box manufactured by **CellBlock FCS, LLC**. The dangerous goods are transported by road vehicle, railway vehicle, or vessel on a domestic voyage, in a manner that doesn't comply with:

- Part 3 (Documentation) of the *TDG Regulations*,
- Part 4 (Dangerous Goods Safety Marks) of the *TDG Regulations*,
- Part 6 (Training) of the *TDG Regulations*, and
- Special Provision 137, subsections (5) of the *TDG Regulations*.

The maximum watt-hour (Wh) ratings for the cells and batteries placed in the box is limited to **185 Wh**, when they are damaged, defective or subject to a recall. Furthermore, the packaging must comply with Packing Instruction:

- i) 908 *CGSB-43.150*, except for sections 2 and 3,
- ii) P908 of the *UN Recommendations*, except for sections 1 and 2, or
- iii) P911 of the *UN Recommendations*.

However, the maximum watt-hour (Wh) ratings for the cells and batteries is limited to **37.3 Wh**, when they are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours. Also, the packaging must comply with Packing Instruction P911 of the *UN Recommendations*.

Finally, even if the cells or batteries exceed the 100 Wh limit specified in Special Provision 34 of the *TDG Regulations*, this equivalency certificate also authorizes the use of the Lithium Battery Handling Mark. Additionally, the mark can use the new dimensions of 100 mm per side as illustrated in the *UN Recommendations*, the *ICAO Technical Instructions*, and the *IMDG Code*. Moreover, the telephone number for additional information is not required to be displayed on the Lithium Battery Handling Mark. As background information, in January 2021, the *UN Recommendations*, the *ICAO Technical Instructions*, and the *IMDG Code* reduced the minimum allowable size of the Lithium Battery Handling Mark from 120 mm by 110 mm to 100 mm per side.



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CONDITIONS

This equivalency certificate authorizes **any person** to handle, offer for transport, transport, or import by road vehicle, railway vehicle, or vessel on a domestic voyage, dangerous goods that are:

UN Number	Shipping Name and Description	Class	Packing Group
UN3480	LITHIUM ION BATTERIES (including lithium ion polymer batteries)	9	N/A
UN3481	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT (including lithium ion polymer batteries); or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT (including lithium ion polymer batteries)	9	N/A

in a standardized means of containment manufactured by **CellBlock FCS, LLC.**, in a manner that does not comply with:

- Part 3 (Documentation) of the *TDG Regulations*,
- Part 4 (Dangerous Goods Safety Marks) of the *TDG Regulations*,
- Part 6 (Training) of the *TDG Regulations*, and
- Special Provision 137(5) of the *TDG Regulations*,

if the following conditions are met:

1) General

- a) The dangerous goods are lithium ion cells or batteries or equipment containing lithium ion cells or batteries that are:
 - i) damaged, defective or subject to a recall, or
 - ii) liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours;
- b) The dangerous goods are transported in accordance with special provision 137 in Schedule 2 of the *TDG Regulations*, except for 137(5);
- c) Detailed instructions on how to package and ship the battery, are provided by **CellBlock FCS, LLC.** to **any person** preparing shipments under the conditions of this equivalency certificate;
- d) Transportation by vessel on a domestic voyage is only permitted when road vehicle shipments are not possible.

2) Means of Containment

- a) The outer means of containment is a UN standardized 4G box that meets the performance requirements for packing group I, commercialized as **CELLSAFE ENVELOPE KIT** and is listed in the table below.

Description	Part Number
XSmall Envelope Kit (7" x 15")	CSENKT0715
Small Envelope Kit (8" x 12.5")	CSENV812-AP
Medium Envelope Kit (12" x 15")	CSENKT01
Large Envelope Kit (12" x 16.75")	CSENKT1216
XL Envelope Kit	CSENKTXL

- b) The means of containment contains only one cell, battery or equipment containing cells or battery;
- c) The means of containment is loaded and secured on the means of transport in such a way as to prevent, under normal conditions of transport, damage to the means of containment or to the means of transport that could lead to an accidental release of the dangerous goods.

Damaged, defective and/or recalled batteries

Small packaging with a volume of 450 L or less

- d) If the cells or batteries, or equipment containing the cells or batteries are damaged, defective or subject to a recall, they must be contained in a packaging that complies with Packing Instruction:
- iv) 908 *CGSB-43.150*, except for sections 2 and 3,
 - v) P908 of the *UN Recommendations*, except for sections 1 and 2, or
 - vi) P911 of the *UN Recommendations*;
- e) The Watt-hour (Wh) rating of the cell or battery or equipment containing the cells or battery must not exceed 185 Wh per means of containment;

Damaged, defective and/or recalled batteries that are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours

Small packaging with a volume of 450 L or less

- f) If the cells or batteries, or equipment containing the cells or batteries are liable to disassemble rapidly, react dangerously, produce a flame or a dangerous evolution of heat, or produce a dangerous emission of toxic, corrosive or flammable gases or vapours, they must be contained in a packaging that complies with Packing Instruction P911 of the *UN Recommendations*;
- g) The Watt-hour (Wh) rating of the cell or battery or equipment containing cells or battery must not exceed 37.3 Wh per means of containment;

3) Safety marks – Marking and Labelling

- a) Each means of containment shall display the Lithium Battery Handling Mark in accordance with:
 - i) section 4.24 of the *TDG Regulations*, or
 - ii) section 5.2.1.9 of the *UN Recommendations*;

Notes: *The UN Recommendations,*

- *now require that each side of the Lithium Battery Handling Mark be 100 mm in length. However, if the size of the package so requires the mark may be reduced to not less than 100 mm wide x 70 mm high, and*
 - *no longer require the telephone number for additional information on the Lithium Battery Handling Mark.*
- b) The means of containment is marked with the following information in a manner that is easy to identify, legible, and in characters that are at least 6 mm high:
 - i) **“Damaged / Defective Lithium Ion Batteries – Forbidden For Transport By Aircraft”**,
 - ii) **“Piles au Lithium Ionique Endommagées / Défectueuses - Interdites au Transport Par Aéronef”**, or
 - iii) **“SU 13920”**.

Signature of Issuing Authority



David Lamarche, P. Eng., ing.

Manager, Approvals and Special Regulatory Projects

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(The following is for information purposes only and is not part of the certificate.)

Contact Person:	Dylan Vandemark CellBlock FCS, LLC 387, Danforth Portland, Maine 04102 USA
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Legend for Certificate Number

SH - Road, SR - Rail, SA - Air, SM - Marine
SU - More than one Mode of Transport
Ren - Renewal

For more information:

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