



Transportation of Dangerous Goods Directorate
Tower C, Place de Ville
330 Sparks Street
Ottawa, Ontario
K1A 0N5

Direction générale du transport des marchandises dangereuses
Tour C, Place de Ville
330, rue Sparks
Ottawa (Ontario)
K1A 0N5



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

Certificate No.: SA 7720 (Ren. 11)

Certificate Holder: Helicopter Association of Canada

Mode of Transport: Air

Effective Date: December 4, 2018

Expiry Date: December 31, 2023

LEGEND

For the purposes of 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*

CONDITIONS

1. This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada, to handle, offer for transport or transport, by aircraft, dangerous goods that are:

- UN1950, AEROSOLS, flammable, Class 2.1,
- UN1950, AEROSOLS, non-flammable, Class 2.2,
- UN1950, AEROSOLS, flammable, containing substances in Class 6.1, Packing Group II, Class 2.1(6.1),
- UN1950, AEROSOLS, non-flammable, containing substances in Class 6.1, Packing Group II, Class 2.2(6.1), or
- UN0312, CARTRIDGES, SIGNAL, Class 1.4G, Packing Group II,

in a manner that does not comply with:

- subsection 12.1(2) of the *TDG Regulations*,

if the following conditions are met:

(a) The dangerous goods are transported in compliance with section 12.9 - Limited Access of the *TDG Regulations*, except for subparagraphs 12.9(1)(c)(i), 12.9(1)(c)(iii), and subsections 12.9(2) to 12.9(12);

(b) In the case of:

- UN1950, AEROSOLS, flammable, Class 2.1,
- UN1950, AEROSOLS, non-flammable, Class 2.2,
- UN1950, AEROSOLS, flammable, containing substances in Class 6.1, Packing Group II, Class 2.1(6.1), or
- UN1950, AEROSOLS, non-flammable, containing substances in Class 6.1, Packing Group II, Class 2.2(6.1),

the air operator ensures that:

(i) the quantity of dangerous goods per aerosol container is less than or equal to 400 ml,

(ii) the aerosol container is in compliance with section 5.11 of the *TDG Regulations* and has two means of protection against actuation,

(iii) the aerosol container is placed in an outer means of containment that is clearly marked with "UN1950 - Bear Spray" and is designed, constructed, filled, closed, secured and maintained so that under normal condition of transport, including handling, there will be no accidental release of dangerous goods that could endanger public safety,

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- (iv) the means of containment containing the aerosol container is transported in a baggage compartment that is separate from the passenger cabin, or an area of the aircraft, approved by Transport Canada for transporting cargo, outside the aircraft cabin to prevent the dangerous goods from entering the air supply of the cabin of the aircraft, and
 - (v) if condition 1.(b)(iv) of this certificate is not possible, the means of containment containing the aerosol container may be transported in the cabin of an aircraft, and the passengers are notified of its location;
- (c) In the case of UN0312, CARTRIDGES, SIGNAL, Class 1.4G, Packing Group II, (animal deterrent such as Bear Bangers), the air operator ensures that:
- (i) the dangerous goods have not deteriorated or been damaged,
 - (ii) the dangerous goods are in an outer means of containment that is clearly marked with “UN0312 - Bear Bangers” and is designed, constructed, filled, closed secured and maintained so that under normal condition of transport, including handling, there will be no accidental release of dangerous goods that could endanger public safety,
 - (iii) if the aircraft has a cargo area separate from the passenger cabin, the means of containment containing the dangerous goods is transported in a cargo area separate from the passenger cabin, and
 - (iv) the total number of devices containing the dangerous goods does not exceed six per person per flight;
- (d) The dangerous goods are loaded aboard the aircraft or as an external load at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or re-fuelling;
- (e) The Helicopter Association of Canada ensures that a copy of this equivalency certificate is provided to all air operator members of the Helicopter Association of Canada;
- (f) The air operator members of the The Helicopter Association of Canada ensure that the personnel handling and transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate;
- (g) A paper or electronic copy of this equivalency certificate accompanies the dangerous goods during transport and must be provided to an inspector or a peace officer immediately upon request; and
- (h) A current proof of membership with The Helicopter Association of Canada must be readily available upon request.

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2. This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada, to handle, offer for transport or transport, by aircraft, dangerous goods, in a manner that does not comply with:

- subsection 12.1(2) of the *TDG Regulations*,

if the following conditions are met:

- (a) The dangerous goods are transported by aircraft referred to in Subpart 5 of Part VII of the *Canadian Aviation Regulations*;
- (b) The dangerous goods are transported in compliance with section 12.9 - Limited Access, except for subparagraph 12.9(1)(c)(i) of the *TDG Regulations*;
- (c) All packaging for which retention of liquid is a basic function is capable of withstanding without leakage an internal pressure producing a pressure differential of not less than 95 kPa;
- (d) The dangerous goods are loaded aboard the aircraft or as an external load at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or re-fuelling;
- (e) The Helicopter Association of Canada ensures that a copy of this equivalency certificate is provided to all air operator members of the Helicopter Association of Canada;
- (f) The air operator members of the The Helicopter Association of Canada ensure that the personnel handling and transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate;
- (g) A paper or electronic copy of this equivalency certificate accompanies the dangerous goods during transport and must be provided to an inspector or a peace officer immediately upon request; and
- (h) A current proof of membership with The Helicopter Association of Canada must be readily available upon request.

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3. This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada, to handle, offer for transport or transport, by aircraft, dangerous goods that are:

- UN2794, BATTERIES, WET, FILLED WITH ACID, electric storage, Class 8,
- UN2795, BATTERIES, WET, FILLED WITH ALKALI, electric storage, Class 8, or
- UN2800, BATTERIES, WET, NON-SPILLABLE, electric storage, Class 8,

in a manner that does not comply with:

- subsection 12.1(2) of the *TDG Regulations*,

if the following conditions are met:

- (a) The dangerous goods are transported in compliance with section 12.9 - Limited Access, except for subparagraphs 12.9(1)(c)(i) and 12.9(11)(a)(ii) of the *TDG Regulations*;
- (b) The dangerous goods:
 - (i) are placed in an acid/alkali-proof liner of sufficient strength and adequately sealed to positively preclude leakage in the event of spillage,
 - (ii) are contained in a means of containment that is a rigid container, wooden slatted crate or on a pallet, which is designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety,
 - (iii) are packed so that the fill openings and vents, if any, are upward,
 - (iv) are protected against short circuit;
- (c) The dangerous goods are loaded aboard the aircraft or as an external load at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or re-fuelling;
- (d) The Helicopter Association of Canada ensures that a copy of this equivalency certificate is provided to all air operator members of the Helicopter Association of Canada;
- (e) The air operator members of the The Helicopter Association of Canada ensure that the personnel handling and transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate;

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- (f) A paper or electronic copy of this equivalency certificate accompanies the dangerous goods during transport and must be provided to an inspector or a peace officer immediately upon request; and
- (g) A current proof of membership with The Helicopter Association of Canada must be readily available upon request.

4. This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada to handle, offer for transport or transport, by aircraft, dangerous goods that are:

- listed in subsection 12.9(2) or the *TDG Regulations*,

in a manner that does not comply with:

- subsection 12.1(2) of the *TDG Regulations*,

if the following conditions are met:

- (a) The dangerous goods are transported in compliance with section 12.9 - Limited Access, except for subparagraphs 12.9(3)(b)(iii) of the *TDG Regulations*;
- (b) The dangerous goods are contained in a small means of containment that is a plastic marine fuel tank having the CSA B306 mark and having a capacity less than or equal to 25 L;
- (c) The small means of containment is designed, constructed, filled, closed, secured, and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety;
- (d) The dangerous goods are loaded aboard the aircraft or as an external load at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or re-fuelling;
- (e) The Helicopter Association of Canada ensures that a copy of this equivalency certificate is provided to all air operator members of the Helicopter Association of Canada;
- (f) The air operator members of the The Helicopter Association of Canada ensure that the personnel handling and transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate;
- (g) A paper or electronic copy of this equivalency certificate accompanies the dangerous goods during transport and must be provided to an inspector or a peace officer immediately upon request; and

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(h) A current proof of membership with The Helicopter Association of Canada must be readily available upon request.

5. This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada to handle, offer for transport or transport, by aircraft, the dangerous goods:

- listed in Appendix A to this equivalency certificate,

in a manner that does not comply with:

- subsection 12.1(2) of the *TDG Regulations*,

if the following conditions are met:

- (a) The dangerous goods are transported in compliance with section 12.9 - Limited Access of the *TDG Regulations*, except for subsection 12.9(9);
- (b) The dangerous goods are loaded aboard the aircraft at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or refuelling;
- (c) The dangerous goods are contained in a means of containment that is in compliance with Part 5 of the *TDG Regulations*;
- (d) For cargo aircraft, each means of containment has a capacity less than or equal to 100 L;
- (e) For passenger carrying aircraft, the total capacity of all means of containment is less than or equal to 120 L;
- (f) The means of containment is secured in an upright position or in as near an upright position as possible to prevent movement during transport;
- (g) The dangerous goods are loaded aboard the aircraft or as an external load at the last aerodrome of departure to access the limited access area and no stops are permitted at any other aerodrome except for emergency reasons or re-fuelling;
- (h) The Helicopter Association of Canada ensures that a copy of this equivalency certificate is provided to all air operator members of the Helicopter Association of Canada;
- (i) The air operator members of the The Helicopter Association of Canada ensure that the personnel handling and transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate;

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- (j) A paper or electronic copy of this equivalency certificate accompanies the dangerous goods during transport and must be provided to an inspector or a peace officer immediately upon request; and
- (k) A current proof of membership with The Helicopter Association of Canada must be readily available upon request.

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

Note 2: Any other requirement of the *TDG Regulations* applies.

Signature of Issuing Authority



David Lamarche, P. Eng., ing.
Chief, Approvals and Special Regulatory Projects

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(The following Explanatory Note is for information purposes only and is not part of this certificate.)

Explanatory Note

This equivalency certificate authorizes the air operator members of the Helicopter Association of Canada to handle or transport forbidden dangerous goods (animal deterrent – commonly known as Bear Spray and Bear Bangers) in compliance with section 12.9 - Limited Access of the *TDG Regulations*.

This equivalency certificate also authorizes the air operator members of the Helicopter Association of Canada to transport:

- dangerous goods as a 705 Air Operator while following the requirements set out in section 12.9 - Limited Access of the *TDG Regulations*,
- batteries in a packaging different from Packing Instructions 800 or 806 of the *ICAO Technical Instructions*, and
- dangerous goods listed in subsection 12.9(2) or the *TDG Regulations* in a plastic marine fuel tank having the CSA B306 mark and having a capacity less than or equal to 25 L.

The current list of the air operator members of the Helicopter Association of Canada is available at the following website: <http://www.h-a-c.ca/operators.html>.

Legend for Certificate Number

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

Appendix A

Dangerous Goods:

- UN1001, ACETYLENE, DISSOLVED, Class 2.1,
- UN1002, AIR, COMPRESSED, with not more than 23.5 per cent oxygen, by volume, Class 2.2,
- UN1006, ARGON, COMPRESSED, Class 2.2,
- UN1013, CARBON DIOXIDE, Class 2.2,
- UN1060, METHYLACETYLENE AND PROPADIENE MIXTURE, STABILIZED, Class 2.1,
- UN1066, NITROGEN, COMPRESSED, Class 2.2, or
- UN1072, OXYGEN, COMPRESSED, Class 2.2(5.1)