



Transportation of Dangerous Goods Directorate
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Direction générale du transport des marchandises dangereuses
L'Esplanade Laurier
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Equivalency Certificate (Approval issued by the competent authority of Canada)

Certificate Number: SR 13611

Template Number: N/A

Certificate Holder: Railway Association of Canada (RAC)

Mode of Transport: Rail

Effective Date: July 30, 2021

Expiry Date: September 30, 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*

49 CFR: *Title 49 of the "Code of Federal Regulations" of the United States*

TP14877: Transport Canada Standard TP 14877E, "Containers for Transport of Dangerous Goods by Rail, a Transport Canada Standard", January 2018, published by the Department of Transport

High-Level Radioactive Waste means (irradiated) nuclear fuel whose owners have declared it as radioactive waste and/or which generates significant heat through radioactive decay. High-Level Radioactive Waste typically has levels of activity concentration in the range of 10^4 to 10^6 TBq/m³.

Used Nuclear Fuel means fuel assemblies removed from a reactor after several years use and treated as waste. Used Nuclear Fuel is also called irradiated nuclear fuel or spent nuclear fuel.

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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

This equivalency certificate authorizes unoccupied locomotives or unoccupied engine tenders to be placed next to a placarded railway car, without the need for a buffer car. Currently, the intent is to eventually amend section 10.6 of the *TDG Regulations* to allow this activity.

Locomotives and engine tenders are designed to mitigate the risk with their ignition components. However, a general railcar that contains an operating engine, such as a diesel generator, would not benefit from this equivalency certificate.

CONDITIONS

This equivalency certificate authorizes the **members of the Railway Association of Canada (RAC)** to handle, offer for transport or transport, by railway vehicle, dangerous goods in a manner that does not comply with:

- item 1(a) of the table in section 10.6 of the *TDG Regulations*,

if the following conditions are met:

1) General

- a) An unoccupied engine tender, unoccupied operating engine, unoccupied distributed power locomotive, or a unoccupied dead-in-tow locomotive may be placed next to a placarded railway vehicle;

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- b) Despite condition 1)a) of this equivalency certificate, an unoccupied engine tender, unoccupied operating engine, unoccupied distributed power locomotive, or unoccupied dead-in-tow locomotives are prohibited from being placed next to a railway vehicle placarded for any of the following classes and must be separated by at least one buffer car:
- i) Class 1.1,
 - ii) Class 1.2,
 - iii) Class 2.3 and the dangerous goods are subject to Special Provision 23 of the *TDG Regulations*,
 - iv) Class 6.1, Packing Group I, due to inhalation toxicity with an LC₅₀ lower than or equal to 200 mL/m³ and a saturated vapour concentration greater than or equal to 500 LC₅₀,
Note: *These thresholds align with hazardous materials classified in the 49 CFR as Division 6.1, Packing Group I, Hazard Zone A.*
 - v) Class 7 (Used or Spent Nuclear Fuel and High-Level Radioactive Waste);
- c) Any unoccupied engine tender, unoccupied operating engine, unoccupied distributed power locomotive, or a unoccupied dead-in-tow locomotive must be locked to prevent unintended occupancy during operation;
- d) The **Railway Association of Canada (RAC)** ensures that a paper or electronic copy of this equivalency certificate is provided to all **members of the Railway Association of Canada (RAC)**;
- e) 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.

2) Training

- a) In addition to the requirements of Part 6 (Training) of the *TDG Regulations*, the **members of the Railway Association of Canada (RAC)** ensure that the personnel handling, offering for transport or transporting the dangerous goods are trained in regards to the conditions of this equivalency certificate.

Signature of Issuing Authority



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

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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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