



# Dangerous Goods and Rail Safety

**A Technical Publication from  
ALBERTA EDGE (ENVIRONMENTAL AND  
DANGEROUS GOODS EMERGENCIES)**

## **Emergency, Release or Anticipated Release Report Requirements**

August 2018

*Alberta* 

This material is meant as a guide to certain parts of the Transportation of Dangerous Goods Regulations and is not meant to be a substitute for them. It is the responsibility of handlers, offerers and transporters of dangerous goods to consult the Regulations for the exact requirements. Alberta EDGE (Environmental and Dangerous Goods Emergencies) of Alberta Transportation can provide accurate information regarding the Regulations 24 hours a day.

**Alberta EDGE (Environmental and Dangerous Goods Emergencies)**

Alberta Transportation  
Dangerous Goods and Rail Safety  
Main Floor, Twin Atria Building  
4999 – 98 Avenue  
Edmonton, Alberta, T6B 2X3

Tel. Edmonton: (780) 422 – 9600  
Tel. Province-wide: 1 (800) 272 – 9600  
Fax: (780) 427 – 1044

**These telephone lines are recorded to assist in responding to the emergency (natural/manmade) and/or inquiry regarding dangerous goods and to ensure that the information is accurate. Direct any questions regarding the recording to the Regulatory Compliance Officer responding to your call or contact the Manager of Alberta EDGE at 780-427-8660. *Legal Authority: Dangerous Goods Transportation and Handling Act, Section 13(1).***

## INTRODUCTION

The federal Transportation of Dangerous Goods (TDG) Regulations regulate the transportation of dangerous goods for the road, rail, air and marine transport modes.

The purpose of the TDG legislation is to reduce the risk to emergency response personnel, the public and the environment. One secondary objective is to collect data on accidents which involve dangerous goods either directly or indirectly. This data will allow the measurement of the influence of this legislation on safety.

Part 8 of the TDG Regulations details the situations and requirements for reporting of specific events involving dangerous goods. These are briefly discussed in this document. Specific sections of the Regulations have been referenced.

Additional information can be obtained by contacting Alberta Transportation, Dangerous Goods and Rail Safety Section, Alberta EDGE at (780) 422-9600 (in the Edmonton area) or at 1-800-272-9600 (toll free within Alberta). Alberta EDGE operates a 24-hour service.

## DUTY TO REPORT

Any person who has the charge, management or control of a means of containment shall report to every person prescribed for the purposes of this subsection any actual or anticipated release of dangerous goods that is or could be in excess of a quantity or concentration specified by the regulation from the means of containment if the release endangers, or could endanger, public safety [Section 18(1) of the Transportation of Dangerous Goods Act, 1992].

## DEFINITION

Part 1 of the TDG Regulations contains the following definition for release:

**Release** means, in relation to dangerous goods,

- (a) a discharge, emission, explosion, outgassing or other escape of dangerous goods, or any component or compound evolving from dangerous goods, from the means of containment being used to handle or transport the dangerous goods; or
- (b) an emission, from a means of containment being used to handle or transport dangerous goods, of ionizing radiation that exceeds a level or limit established under the "Nuclear Safety and Control Act". [Section 1.4]

## EMERGENCY REPORT [Section 8.2]

Any person who has the charge, management or control of the Dangerous Goods must report a release or anticipated release of dangerous goods that are being offered for transport, handled or transported by road vehicle, railway vehicle or ship as soon as possible, after a release or anticipated release. The verbal report has to be made to **any local authority** that is responsible for responding to emergencies at the location of the release or anticipated release. The report must be made if the dangerous goods are, or could be, in excess of the quantity set out in the following table **AND** if the release endangers or could endanger **Public Safety**.

**Public Safety** means the safety of human life and health and of property and the environment.

Section 13 of the provincial Dangerous Goods Transportation and Handling Act also requires any person who at the time **has the charge, management, or control of the means of containment** shall make a report of the occurrence or imminence of the release in the prescribed manner and containing the prescribed information to a **prescribed person**, as soon as possible in the circumstances.

Class	Packing Group or Category	Quantity
1	II	Any quantity
2	Not applicable	Any quantity
3, 4, 5, 6.1 or 8	I or II	Any quantity
3, 4, 5, 6.1 or 8	III	30 L or 30 kg
6.2	A or B	Any quantity
7	Not applicable	A level of ionizing radiation greater than the level established in section 39 of the "Packaging and Transport of Nuclear Substance Regulations, 2015"
9	II or III, or without packing group	30 L or 30 kg

## REPORTING AUTHORITIES

**Local authority** (Section 8.2 of the federal TDG Regulations) or the **prescribed person** (Section 13 of the Provincial Dangerous Goods Transportation and Handling Act) who receives the dangerous goods occurrence/release include **Alberta Transportation, Dangerous Goods and Rail Safety (1-800-272-9600)** in addition to the local police (911), as per Section 5.1 of the provincial Dangerous Goods Transportation and Handling Regulation, AR 157/97.

A request of the following label can be obtained from Alberta Transportation, Dangerous Goods and Rail Safety Section:



### EMERGENCY REPORT - INFORMATION REQUIREMENT [Section 8.3]

An Emergency Report provided to the local authority referred to in Section 8.2 must include the following information:

- (a) the name and contact information of the person making the report;
- (b) the date, time and geographic location of the release; or the incident that led to the anticipated release
- (c) the mode of transport used;
- (d) the shipping name or UN number of the dangerous goods;
- (e) the quantity of dangerous goods that was in the means of containment before the release or anticipated release;
- (f) the quantity of dangerous goods estimated to have been released; and
- (g) if applicable, the type of incident leading to the release, including a collision, roll-over, derailment, overfill, fire, explosion or load-shift.

## **RELEASE OR ANTICIPATED RELEASE REPORT [Section 8.4]**

The Release or Anticipated Release Report will be required in the following situations:

- the death of a person;
- a person sustaining injuries that required immediate medical treatment by a health care provider;
- an evacuation of people or their shelter in place;
- the closure of a facility used in the loading and unloading of dangerous goods, or a road, a main railway line or a main waterway.
- a means of containment has been damaged to the extent that its integrity is compromised;
- the centre sill or stub sill of a tank car is broken or there is a crack in the metal equal to or greater than 15 cm (6 in.).

The report must be made to:

- (a) CANUTEC at 1-888-CANUTEC (1-888-226-8832) or 613-996-6666;
- (b) The consignor;
- (c) In the case of dangerous goods included in Class 7, Radioactive Materials, the Canadian Nuclear Safety Commission; and
- (d) In the case of a ship, a Vessel Traffic Services Centre or a Canadian Coast Guard radio station.

## **RELEASE OR ANTICIPATED RELEASE REPORT – INFORMATION REQUIREMENT [Section 8.5]**

- (a) the name and contact information of the person making the report;
- (b) in the case of a release of dangerous goods, the date, time and geographic location of the release;
- (c) in the case of an anticipated release of dangerous goods, the date, time and geographic location of the incident that led to the anticipated release;
- (d) the mode of transport used;
- (e) the shipping name or UN number of the dangerous goods;
- (f) the quantity of dangerous goods that was in the means of containment before the release or anticipated release;
- (g) in the case of a release of dangerous goods, the quantity of dangerous goods estimated to have been released;
- (h) if applicable, the type of incident leading to the release or anticipated release, including a collision, rollover, derailment, overfill, fire, explosion or load-shift;
- (i) if applicable, the name and geographic location of any road, main railway line or main waterway that was closed;
- (j) a description of the means of containment containing the dangerous goods;
- (k) if applicable, an estimate of the number of people evacuated or sheltered in place; and
- (l) if applicable, the number of deaths and the number of persons who sustained injuries that required immediate medical treatment by a health care provider.

### **30-DAY FOLLOW-UP REPORT [Section 8.6]**

A person who has made a report referred to in Section 8.4 "Release or Anticipated Release Report" or the person's employer, must make a follow-up report in writing to the Director General within 30 days after the day on which the report was made.

### **30-DAY FOLLOW-UP REPORT – INFORMATION REQUIREMENT [Section 8.7]**

1. the name and contact information of the person making the report;
2. the names and contact information of the consignor, consignee and carrier;
3. in the case of a release of dangerous goods, the date, time and geographic location of the release;
4. in the case of an anticipated release of dangerous goods, the date, time and geographic location of the incident that led to the anticipated release;
5. the mode of transport used;
6. the classification of the dangerous goods;
7. the quantity of dangerous goods that was in the means of containment before the release or anticipated release;
8. in the case of a release of dangerous goods, the quantity of dangerous goods estimated to have been released;
9. a description of the means of containment containing the dangerous goods;
10. if applicable, a description of any failure of or damage to the means of containment;
11. information about the events leading to the release or anticipated release of dangerous goods;
12. information as to whether there was an explosion or fire;
13. the name and geographic location of any facility used in the loading or unloading of the dangerous goods that was closed, and the duration of the closure;
14. the name and geographic location of any road, main railway line or main waterway that was closed, and the duration of the closure;
15. if applicable, an estimate of the number of people evacuated or sheltered in place and the duration of the evacuation or shelter in place;
16. if applicable, the number of deaths and the number of persons who sustained injuries that required immediate medical treatment by a health care provider;
17. if applicable, the ERAP reference number;
18. the date on which the report referred to in section 8.4 was made; and
19. an estimate of any financial loss incurred as a result of the release or anticipated release, and any emergency response cost or remediation costs related to it.

The person who has made the 30-Day Report must notify the Director General of any change to the information referred to in (6), (9), (10), (11), (12), (16) or (19) that occurs within one year after the day on which the follow-up report was made. A copy of the 30 Day report must be kept for 2 years and it must be made available to an inspector within 15 days if requested.

## LOSS OR THEFT REPORT [Section 8.16]

Any person who has the charge, management or control of the Dangerous Goods before the loss or theft must immediately report by telephone to:

- (a) CANUTEC, at 1-888-CANUTEC (1-888-226-8832) or 613-996-6666;
- (b) in the case of dangerous goods included in Class 1, Explosives, a Natural Resources Canada Inspector, at 613-995-5555;
- (c) in the case of dangerous goods included in Class 7, Radioactive Materials, the Canadian Nuclear Safety Commission.

In the event that the dangerous goods is recovered, the above persons must then be notified by the person who reported it.

The followings are the list of dangerous goods that must be reported by telephone:

- (a) any quantity, in the case of the following dangerous goods:
  - I. UN1261, NITROMETHANE,
  - II. UN1357, UREA NITRATE, WETTED, with not less than 20% water, by mass,
  - III. UN1485, POTASSIUM CHLORATE,
  - IV. UN1486, POTASSIUM NITRATE,
  - V. UN1487, POTASSIUM NITRATE AND SODIUM NITRITE MIXTURE,
  - VI. UN1489, POTASSIUM PERCHLORATE,
  - VII. UN1495, SODIUM CHLORATE,
  - VIII. UN1498, SODIUM NITRATE,
  - IX. UN1499, SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE,
  - X. UN1511, UREA HYDROGEN PEROXIDE,
  - XI. UN1796, NITRATING ACID MIXTURE with more than 50% nitric acid,
  - XII. UN1826, NITRATING ACID MIXTURE, SPENT, with more than 50% nitric acid,
  - XIII. UN1942, AMMONIUM NITRATE with not more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance,
  - XIV. UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary),
  - XV. UN2015, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED with more than 60% hydrogen peroxide, or HYDROGEN PEROXIDE, STABILIZED,
  - XVI. UN2031, NITRIC ACID, other than red fuming,
  - XVII. UN2032, NITRIC ACID, RED FUMING,
  - XVIII. UN3149, HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED, and
  - XIX. UN3370, UREA NITRATE, WETTED, with not less than 10% water by mass;
- (b) any quantity, in the case of dangerous goods in the following primary and subsidiary classes:
  - I. explosives included in Class 1.1, 1.2 or 1.3,
  - II. toxic gases included in Class 2.3,
  - III. organic peroxides included in Class 5.2, Type B, liquid or solid, temperature controlled,
  - IV. toxic substances included in Class 6.1 and Packing Group I,



- V. infectious substances included in Class 6.2, and
- VI. radioactive materials included in Class 7; and

(c) a total quantity of 450 kg or more, in the case of dangerous goods in the following primary and subsidiary classes:

- I. explosives included in Class 1.4 (except for 1.4S), 1.5 or 1.6,
- II. flammable gases included in Class 2.1,
- III. flammable liquids included in Class 3,
- IV. desensitized explosives included in Class 3 or 4.1,
- V. substances liable to spontaneous combustion, pyrophoric solids or liquids, included in Class 4.2 and Packing Group I or II,
- VI. water-reactive substances included in Class 4.3 and Packing Group I or II,
- VII. oxidizing substances included in Class 5.1 and Packing Group I or II, and
- VIII. corrosives included in Class 8 and Packing Group I or II.

#### **LOSS OR THEFT REPORT – INFORMATION REQUIREMENT [Section 8.17]**

- (a) the name and contact information of the person making the report;
- (b) the names and contact information of the consignor, the consignee and the carrier;
- (c) information as to whether the dangerous goods were lost or stolen;
- (d) the shipping name or UN number of the lost or stolen dangerous goods;
- (e) the quantity of the lost or stolen dangerous goods;
- (f) a description of the means of containment containing the lost or stolen dangerous goods; and
- (g) the approximate date, time and geographic location of the loss or theft.

#### **UNLAWFUL INTERFERENCE REPORT [Section 8.18]**

If there has been unlawful interference with dangerous goods while they were being imported, offered for transport, handled or transported, the person who had the charge, management or control of the goods must, report it by telephone to

- (a) CANUTEC, at 1-888-CANUTEC (1-888-226-8832) or 613-996-6666;
- (b) in the case of dangerous goods included in Class 1, Explosives, a Natural Resources Canada Inspector, at 613-995-5555;
- (c) in the case of dangerous goods included in Class 7, Radioactive Materials, the Canadian Nuclear Safety Commission.

#### **UNLAWFUL INTERFERENCE REPORT – INFORMATION REQUIREMENT [Section 8.19]**

- (a) the name and contact information of the person making the report;
- (b) the names and contact information of the consignor, the consignee and the carrier;
- (c) a detailed description of the unlawful interference;
- (d) the shipping name or UN number of the dangerous goods;

- (e) a description of the means of containment containing the dangerous goods, and the number of means of containment; and
- (f) the approximate date, time and geographic location of the unlawful interference.

### **REPORTING AUTHORITIES CONTACT INFORMATION**

Local authorities in Alberta include **911** (or local police) and **Alberta Transportation, Dangerous Goods and Rail Safety (1-800-272-9600)**

The mailing address for 30 Day Report to the **Director General** is:

**Transport Dangerous Goods (TDG)**

Place de Ville, Tower C

9<sup>th</sup> Floor, 330 Sparks St.

Ottawa, Ontario K1A 0N5

The e-mail address for the Director General is: [dor-rcd@tc.gc.ca](mailto:dor-rcd@tc.gc.ca)

## Part 8 TDG Reporting Requirements

### (Alberta)

TYPES OF REPORT	Who must make the report?	When is the report required?	Who should receive the report?	Method of Reporting	Is a 30-Day Follow-up report required?
<b>Emergency Report</b>	Person who has the charge, management or control of the dangerous goods (DG).	<ul style="list-style-type: none"> <li>• As soon as possible;</li> <li>• In the case of a release or an anticipated release of DG that are or could be in excess of the quantity set out in Section 8.2 of the TDG Regulations and if it endangers or could endanger public safety.</li> </ul>	Local authority responsible for emergency response. <i>911 (or local police; relevant provincial authorities,</i> <b><i>Alberta Transportation (1-800-272-9600)</i></b> <i>or</i> <b><i>Canadian Coast Guard (1-800-889-8852)</i></b> <i>(if applicable).</i>	Telephone (Verbal)	No
<b>Release or Anticipated Release Report</b>	Person who made the Emergency Report.	The report is required in these situations: <ul style="list-style-type: none"> <li>• the death of a person;</li> <li>• a person sustaining injuries requiring immediate medical treatment by a health care provider;</li> <li>• an evacuation of people or their shelter-in-place;</li> <li>• the closure of a facility, road, main railway line or main waterway;</li> <li>• a means of containment has been damaged;</li> <li>• the centre sill or stub sill of a tank car is broken or there is a crack in the metal <math>\geq 15</math> cm (6 inches).</li> </ul>	<ul style="list-style-type: none"> <li>• CANUTEC;</li> <li>• The consignor (shipper)</li> </ul> and, <u>if applicable</u> , <ul style="list-style-type: none"> <li>• The Canadian Nuclear Safety Commission (CNSC); or</li> <li>• A Vessel Traffic Services Centre, or the Canadian Coast Guard.</li> </ul>	Telephone  Followed by Written Report	Yes
<b>Loss or Theft Report</b>	Any person who had the charge, management or control of the dangerous goods before the loss of theft	<ul style="list-style-type: none"> <li>• As soon as possible;</li> <li>• In case of loss or theft if the quantity of DG is greater than the quantities indicated in Subsection 8.16(2) of the TDG Regulations.</li> </ul>	<ul style="list-style-type: none"> <li>• CANUTEC;</li> </ul> and, <u>if applicable</u> , <ul style="list-style-type: none"> <li>• Natural Resources Canada, or</li> <li>• CNSC.</li> </ul>	Telephone (Verbal)	No
<b>Unlawful Interference Report</b>	Person who has the charge, management or control of the dangerous goods (DG).	<ul style="list-style-type: none"> <li>• As soon as possible after it is discovered that dangerous goods have been unlawfully interfered with.</li> </ul>	<ul style="list-style-type: none"> <li>• CANUTEC;</li> </ul> and, <u>if applicable</u> , <ul style="list-style-type: none"> <li>• Natural Resources Canada; or</li> <li>• CNSC.</li> </ul>	Telephone (Verbal)	No