Transportation of Dangerous Goods (TDG) Program
Presentation to Emergency Response Assistance Canada

Presented by:
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Transportation of Dangerous Goods (TDG) Directorate

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Outline

• Who we are
  • Regulatory Affairs
  • Compliance and Response
  • Safety Research and Analysis
  • CANUTEC

• Regulatory Updates

• TDG Client Identification Database

• Remedial Measures Specialists (RMS)

• Tools for First Responders

• TDG Safety Awareness

• TDG Contacts
Who we are - Regulatory Affairs

- Develops regulations
  - TC-117 tank car standard
  - International Harmonization Update

- Develops safety policy

- Develops safety standards for Means of Containment (MOCs)
  - Approximately 2100 facilities registered with TC

- Registers and inspects MOC facilities
  - 16 engineers conduct inspections as well as registration and standards development

- Administers certificates (permits)
  - Approximately 700 equivalency certificates issued in 2016

- Engages internationally, including:
  - United Nations Sub-Committee of Experts of the Transportation of Dangerous Goods, which develops the UN Model Regulations on TDG
  - Other UN bodies, such as ICAO, IMO and IAEA
  - Regulatory Cooperation Council
Who we are - Compliance and Response

Compliance and Enforcement
• Implements national oversight activities
• Develops inspection standards, instructions and guidelines for all designated inspectors (116 inspectors and 17 MOC inspectors TC-TDG, 23 TC-Marine, 31 CNSC, 17 Provincial or Territorial).
• Enforcement function is centralized in HQ
• 23,212 known sites / 5237 inspections expected to be conducted in the 2017-2018, an increase of 120% since 2013-2014

Response
• Manages the national Emergency Response Assistance Plan (ERAP) program (see Annex 1 for more information).
  – Nationally there are 19 Remedial Measures Specialists, 940 ERAPs
• Manages the Chemical, Biological, Radiological and Nuclear, Explosives (CBRNE) program which involves current ERAP holders, contractors and community stakeholders and engages them in preparing for and responding to a terrorist attack involving the use of dangerous goods in transport.

Awareness
• Develops awareness materials (i.e. “You are not alone” publication) and delivers safety awareness to approximately 60 venues per year.
Who we are - Safety Research and Analysis

- Conducts research projects and analyses safety data
  - Jack Rabbit II (Large scale toxic gas releases)
  - Crude oil and crude oil classification (including vapour pressure)
  - Dangerous Goods Rail Research
  - Toxic inhalants supply chain studies (including geospatial information system)
  - Lithium batteries
  - Liquified Natural Gas (LNG)
  - Computational Modelling of Behaviour of Tank Cars carrying Crude oil in Fires

- Establishes and monitors data governance

- Conducts environmental scanning and manages the integrated risk framework (including risk assessments)

- Plans for risk-based oversight program
Who we are - CANUTEC

- Operates the **Canadian Transport Emergency Centre** providing 24/7 real-time advice to first responders during emergencies involving dangerous goods.
- Employs 14 bilingual scientists who are trained Emergency Response Advisors.
- Handles 30,000 communications annually (1,000 in relation to incidents).
- Produces the Emergency Response Guidebook (See Annex 2).
- Registers companies and maintains a safety data sheet database (companies register to use our 24hr telephone number to obtain technical advice on dangerous goods).
- Provides support to first responders and communities during dangerous goods simulations.
Regulatory Updates

In Progress

• Emergency Response Assistance Plans (ERAP) - Part 7
• Training Requirements - Part 6
*BIG CHANGES COMING*

Why does Part 7 need updating?

- To enhance the capacity to respond to dangerous goods transport emergencies through improvements to ERAP requirements.

- To respond to Emergency Response Task Force (ERTF) recommendations and address issues such as:
  - Who can activate an ERAP and when;
  - ERAP response;
  - Updating and streamlining requirements; and
  - Providing clarifications where needed (e.g., “manufacturer”, “in writing”, responsibilities when allowing another party to use ERAP).
Emergency Response Assistance Plans (ERAP) - Part 7

*BIG CHANGES COMING*

Proposed Amendments

- Mandatory phone call to ERAP number when a means of transport cannot continue to its intended destination without intervention.

- Requirement for technical advisor to be available to respond to a call to the ERAP number within 10 minutes, 7 days a week, 24 hours a day while goods are in transport.

- Activation criteria for an ERAP:
  - The integrity of the means of containment(s) have been compromised and endangers, or could endanger public safety;
  - Transfer anticipated or required; and
  - There is a release or an anticipated release.
Why is Part 6 being updated?

To increase compliance and improve public safety by:

- Ensuring that people who transport dangerous goods have the knowledge and skills to perform their jobs; and
- Increasing clarity of the regulatory requirements.

Progress to Date

- Policy consultations took place over 2015-2017 on options to amend Part 6.
- A competency based training and assessment (CBTA) standard with a general awareness training component will be incorporated by reference into the amended regulations:

Next Steps

- Technical committee meeting in October, 2018.
Transportation of Dangerous Goods Client Identification Database (TDG CID)

- TDG CID will identify regulated parties throughout the supply chain and collect information on their activities in order to facilitate targeted outreach and risk-based assessment of dangerous goods sites across Canada.

- Transport Canada (TC) has adopted a phased-approach to developing/implementing TDG CID:
  - **Phase 1** – Policy Development
  - **Phase 2** – Legislative and Regulatory Development
  - **Phase 3** – Platform Development & Launch

- To conclude Phase 1 – Policy Development, TC has developed a “What We Heard” report summarizing the main concerns raised by stakeholders to be shared by the end of 2018.
# Remedial Measures Specialists (RMS)

## Who is an RMS?

- A scientist and a trained emergency response specialist who works for the TDG Directorate at Transport Canada
- An ERAP specialist who assesses ERAPs and attends DG incident sites
- A designated TDG Inspector under the TDG Act

## What is the role of the RMS as an ERAP specialist?

- To review ERAP applications and to evaluate if the plan, as presented, can be implemented and will be effective at responding to an actual or anticipated release of dangerous goods that endangers or could endanger public safety
- To conduct oversight activities such as site assessments and exercise attendance to confirm the response capabilities identified in the ERAP
- To promote awareness of the ERAP program by participating and presenting at various events across the country.
### What is the role of an RMS at a DG incident site

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<tr>
<th>Role</th>
<th>Details</th>
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<tr>
<td>Provide advice and make recommendations to the incident commander</td>
<td>in an ICS/IMS structure</td>
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<tr>
<td>Conduct his/her own site assessment and inform the incident</td>
<td>commander and TC</td>
</tr>
<tr>
<td>Monitor and assess industry’s response</td>
<td>(carriers, consignors/shippers, ERAP holders or response contractors)</td>
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<tr>
<td>Direct actions or stop actions, if required, to protect public</td>
<td>safety and personnel on site</td>
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<tr>
<td>Report on the effectiveness of an ERAP to ensure its implementation</td>
<td>is timely, appropriate, safe and coordinated (TASC)</td>
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Incident Command System (ICS)

ICS & the Transportation of Dangerous Goods (TDG) Directorate

Transport Canada’s TDG Directorate **requires** ICS training for:
- TDG CANUTEC’s Emergency Response Advisors
- TDG Remedial Measures Specialists (RMS)

Transport Canada’s TDG Directorate strongly encourages ICS training for:
- ERAP Plan Holders
- Emergency responders listed in the ERAP
Tools for First Responders

- Competency Guidelines for Responders to Incidents of Flammable Liquids in Transport

- Online safety awareness application on rail incidents involving flammable liquids
  [http://rail.capp.ca/](http://rail.capp.ca/)
FiRST Application

- **First Responder Support Tools (FiRST)** provides responders and emergency managers with critical, mobile, map-based information to support IED and Hazmat incident response.

- Users can access response data, annotate digital maps, retrieve current weather to orient downwind hazard areas, and assess roadblocks to isolate the area.
AskRail Application

• Use a simple railcar ID search to see whether a railcar is carrying dangerous goods.
• View the contents of the entire train.
• View emergency contact information for all Class I railroads (CN & CP).
• Available in English and French in the U.S., Canada and Mexico.
TDG Safety Awareness Program

PROGRAM OBJECTIVES

• Promote public safety in the transportation of dangerous goods.

• Provide safety awareness to targeted audiences.

• Develop and promote safety awareness tools, such as:

  ✓ FAQ;
  ✓ TDG Newsletter;
  ✓ Display of Toxic Inhalation
  ✓ Competency Guidelines for First Responders;
  ✓ TRANSCAER events.
TDG Safety Awareness Program

TDG NEWSLETTER

• Available upon request and distributed electronically free of charge to more than 23,000 readers in Canada and abroad.

• Provides useful information on the safe transportation of dangerous goods.

You’re not alone! Document

The purpose of this document:

• Assist local communities to plan and prepare for potential rail incidents involving the transportation of dangerous goods; and

• Offer tools for police, rescue, medical and firefighting operations to combat the effects of a major rail incident occurring within a community.

It is designed to be used by local emergency planners as a document that can be tailored to address identified hazards and be a component of a local Emergency Response Plan.
Guide for Cross-Border Emergency Response

• This guide is for anyone developing or using cross-border emergency response services (both public and private).

• It provides general guidance on how to plan for incidents before they happen.
TDG Contacts

For general TDG information: TDG-TMD@tc.gc.ca

For emergencies (24 hours a day, 7 days a week) dial:
- 1-888-CANUTEC,
- (613) 996-6666 or
- *666 on a mobile phone (in Canada only).

Websites: www.tc.gc.ca/tdg and www.tc.gc.ca/canutec
# TDG Contacts

## TDG Regional Offices

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<tr>
<th>Region</th>
<th>Telephone Number</th>
<th>Email address</th>
</tr>
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<tbody>
<tr>
<td>Atlantic</td>
<td>1-866-814-1477</td>
<td><a href="mailto:TDG-TMDAtlantic@tc.gc.ca">TDG-TMDAtlantic@tc.gc.ca</a></td>
</tr>
<tr>
<td>Quebec</td>
<td>1-514-633-3400</td>
<td><a href="mailto:TMD-TDG.Quebec@tc.gc.ca">TMD-TDG.Quebec@tc.gc.ca</a></td>
</tr>
<tr>
<td>Ontario</td>
<td>1-416-973-1868</td>
<td><a href="mailto:TDG-TMDOntario@tc.gc.ca">TDG-TMDOntario@tc.gc.ca</a></td>
</tr>
<tr>
<td>Prairie &amp; Northern</td>
<td>1-888-463-0521</td>
<td><a href="mailto:TDG-TMDPNR@tc.gc.ca">TDG-TMDPNR@tc.gc.ca</a></td>
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<tr>
<td>Pacific</td>
<td>1-604-666-2955</td>
<td><a href="mailto:TDGPacific-TMDPacifique@tc.gc.ca">TDGPacific-TMDPacifique@tc.gc.ca</a></td>
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