



GTM Energy Conference April 13, 2007



PUTTING PUBLIC SAFETY FIRST



Technical Standards & Safety Authority

- A private, not-for-profit corporation with a focus on public safety, incorporated on August 30th 1996.
- Governed by a 17 member Board of Directors (reflecting industry, consumer, public and government).
- One of the few independent corporations in North America with delegated responsibility for administering and enforcing public safety legislation.
- More than 300 full-time employees
- Delegated authority in Ontario from the Ministry of Government Services (MGS)
- Business experience for public and private-sector clients in several countries

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Technical Standards & Safety Authority

For the Province of Ontario we regulate the following in regards to safety:

- Amusement Devices such as rollercoaster's
- Elevating Devices
- Boilers and Pressure Vessels
- Upholstered and Stuffed Articles such as mattresses
- Liquid & Gaseous Fuels such as natural gas, gasoline, fuel oil and propane

The regulation of Fuels Safety is of particular interest to this group.

Our Services

- Public Education – TSSA develops and delivers public education programs to encourage safe behaviors.
- Training Services – We develop and deliver a variety of voluntary technical safety programs.
- Environmental Services – We ensure that environmental impacts from petroleum storage are properly remediated.
- Engineering Review/Approvals – TSSA reviews, approves and licenses designs and facilities before equipment is manufactured or installed.
- Inspection – We inspect/test facilities and equipment at time of installation and periodically during operation.

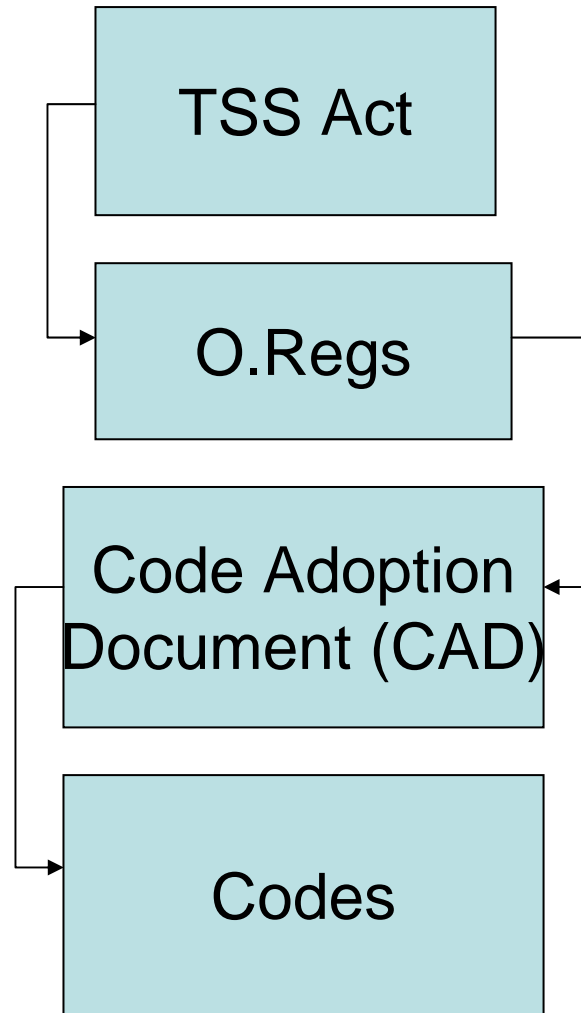


Our Services (continued)

- Licensing, Registration & Certification - TSSA licenses regulated facilities and equipment, registers contractors and certifies people who install and maintain equipment.
- Investigation/Prosecution - We investigate incidents, issue directives and prosecute individuals or companies who have been charged with contravening Ontario's Technical Standards and Safety Act.

Investigate Incidents & Non-Compliances





Technical Standards & Safety Act

TSS Act Addresses:

- Requirement for authorizations (licenses, approvals, etc.)
- Director's Powers
- Inspector's Powers
- Issuance of Safety Orders by Regulator
- Fines and Penalties



Technical Standards & Safety Act

TSS Act sets out the framework for the regulations.

General requirements applicable to all regulations.

- Responsibilities
- Penalties

Fuels Regulations

- Fuel Oil – Ontario Regulation 213/01
- Gaseous Fuels – Ontario Regulation 212/01
- Liquid Fuels Handling – Ontario Regulation 217/01
- Propane Storage/Handling – Ontario Regulation 211/01
- Pipeline – Ontario Regulation 210/01
- Compressed Natural Gas – Ontario Regulation 214/01
- Fuels Industry Certificates – Ontario Regulation 215/01

Fuels Regulations

- Requirement for specific approvals (people, contractors, facilities, equipment)
- Requirements of fuel suppliers (safe installation)
- Requirements of certificate holders (safe installation)
- How industry addresses safety issues
- Reporting of incidents

Regulations

Regulation provides administrative requirements that governs installation and operation of equipment

- Equipment must be approved
- Installations must be inspected
- How to address unsafe/non-compliant equipment/installations

Code Adoption Document

- Adopts National Codes under the Appropriate Regulation with amendments local to Ontario.
- The codes address installations issues (ie. Natural Gas and Propane Installation Code).

National Codes

Code Development:

- Recognized by the Standards Council of Canada
- Technical Committee made up of volunteers
- Balanced committee
- Consensus decision making
- CSA/ULC act as a neutral third party – Administrator

Codes

Provides minimum requirements for installation of fuel equipment

For Ontario, TSSA

- Enforces the Fuels Regulations, National Codes and Certification Standards
- Represent the public with regard to public safety in the development Regulations, Codes and Standards
- Work with Industry Experts when Gaps are identified to develop safe solutions

Regulations applicable to Biogas:

- Gaseous Fuels – O. Reg 212/01
- Fuels Industry Certificate – O. Reg 215/01

Codes applicable to Biogas:

- Facility would use most applicable standard – German Standard for Agricultural Biogas Installation
- CSA B105 Digester Gas and Landfill Gas Installation Code

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Questions?