



# TSSA: Enhancing Public Safety In Ontario



PUTTING PUBLIC SAFETY FIRST

## **Fuels Safety and Amusement Devices Safety**

Presented by: Sat Viridi, Fuels Regional Supervisor and  
Marc Tevyaw, Amusement Devices Technical Specialist

TSSA Fuels Safety and Amusement Devices Safety Program  
February 19, 2010



# Who is the TSSA?

- **Not-for-profit safety organization**
- **Non-government, self-funded**
- **Prevention-oriented**
- **Administers and enforces public safety laws under Ontario's *Technical Standards and Safety Act, 2000***

PUTTING PUBLIC SAFETY FIRST



# TSSA Industry Sectors

- Amusement Devices
- Boilers and Pressure Vessels
- Elevators, Escalators and Ski Lifts
- Fuels
- Operating Engineers
- Upholstered and Stuffed Articles

PUTTING PUBLIC SAFETY FIRST



# TSSA Services

TSSA carries out a broad spectrum of tasks on behalf of governments, businesses and the general public, including:

- **Public Education**
- **Training and Certification**
- **Licensing and Registration**
- **Engineering Design Review**
- **Investigation / Prosecution**
- **Inspections**
- **Safety Management Consultation**

PUTTING PUBLIC SAFETY FIRST



# TSSA Partnerships

- **Industry Advisory Councils**
- **Risk Reduction Groups (RRG)**
- **Government**
- **Industry**
- **Safety Organizations**

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

TSSA's Fuels Safety Program provides safety services for the safe transportation, storage, handling and use of fuels across the province.

## Regulates:

- Fuel Suppliers
- Transport Trucks/Storage Facilities
- Fuel Equipment/Appliances
- Fuel Contractors
- Pipelines



PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Livestock Barn Owners: Protect Your Investment – Choose Outdoor-Mounted Heaters

- Growing awareness of the dangers of fuel-fired heaters inside barns housing livestock where manure produces combustible methane gas;
- Fires and explosions have occurred when methane has been drawn into the burner, resulting in property damage, injury and even death;
- The safer alternative is to install heaters on the outside of the building, where they draw fresh air.

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Livestock Barn Owners: Protect Your Investment – Choose Outdoor-Mounted Heaters

- **Safer:** The likelihood that heaters will take in air with a high level of methane is greatly reduced;
- **Longer Lasting:** Heaters and gas piping are not exposed to the corrosive barn environment;
- **Better Performing:** Heater take in fresh air for cleaner combustion;
- **Bio-Safe:** Maintenance can be done outside, increasing bio-security;

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Livestock Barn Owners: Protect Your Investment – Choose Outdoor-Mounted Heaters

- **Cheaper to Install:** The total installation cost is reduced – no piping is required in the barn, and the supply tank can be placed close to the heaters, requiring minimal amount of piping.
- Most manufacturers of agricultural direct-fired heaters have an outdoor kit or a model designed for mounting on the outside of a building – some of which include natural ventilation, reducing the risk of methane build-up.

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Livestock Barn Owners: Protect Your Investment – Choose Outdoor-Mounted Heaters

- If you must use inside heaters, reduce the risk by ensuring your appliance is certified for installation in a hazardous location, following industry standard practices.
- Avoid these mistakes, which have led to incidents in Ontario...
- **Never overfill the liquid manure tank, which can block the vents;**

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Livestock Barn Owners: Protect Your Investment – Choose Outdoor-Mounted Heaters

- **Never shut down the ventilation system**, even when the barn is empty as the manure pits continue to produce methane, especially while being cleaned;
- **Methane rises to the ceiling** and can ignite when the heater is restarted; and
- **Do not forget regular maintenance.**

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## New Propane Storage and Handling Regulations

- Ontario government commissioned an Expert Propane Panel which resulted in 40 recommendations; over half have been implemented through regulatory changes;
- Changes include: licensing based on a risk and safety management plan; minimum of annual inspections; officer of the company holding a certificate for the fuels work; increased municipal interaction; approval by the fire services, etc.
- **Note:** These recommendations will be considered for other fuels regulations.

PUTTING PUBLIC SAFETY FIRST



# TSSA Amusement Devices Program

TSSA's Amusement Devices Safety Program provides safety services for over 1,600 amusement devices across the province through a combination of:

- **risk-informed decision-making;**
- **public education and outreach;**
- **industry and stakeholder partnerships;**
- **effective enforcement procedures;** and
- **ongoing regulatory improvement.**



PUTTING PUBLIC SAFETY FIRST



# TSSA Amusement Devices Program

## New Amusement Devices Regulations

- amendment and clarification regarding **scope of reference** where an amusement device, defined by device as opposed to locale, falls under regulation and necessary public safety laws regardless of public accessibility;
- **liability insurance** increased to \$2M as consistent with minimum insurance conditions under Canadian jurisdiction;
- new **incident reporting criteria**, conveying owner/licence holder requirements;

PUTTING PUBLIC SAFETY FIRST



# TSSA Amusement Devices Program

## New Amusement Devices Regulations

- new **permit placement** requiring the permit number plate to be affixed to the device;
- new **allowance for contract mechanics**, recognizing existing industry practice;
- amendment of definitions to include **zip lines**, exempt under certain limitations;
- new **permit requirements** for a **permit lapse of five years**, where the applicant provides documentation verifying device alterations that comply with up-to-date design specifications;

PUTTING PUBLIC SAFETY FIRST



# TSSA Amusement Devices Program

## New Amusement Devices Regulations

- amendment of **device type certification**, where once a device type is certified, similar type designs are exempt from design review if meeting current code requirements; and
- new **operator training log requirement** to ensure skills and safety knowledge are kept up-to-date and current.

PUTTING PUBLIC SAFETY FIRST



# TSSA Amusement Devices Program

## New Incident Reporting Guideline

A new guideline for incident reporting has been developed to aid in compliance, requiring any incident involving an amusement device be reported to the Director. The new guideline addresses issues related to:

- **Types of incident(s);**
- **Harmful events which may impact the safety of a device;**
- **Devices found in a hazardous condition;**
- **Who should report, method of reporting and reporting timelines;**
- **Requirements related to preserving the scene;**
- **Returning a device back into operation; and**
- **Thorough investigation of incidents.**

PUTTING PUBLIC SAFETY FIRST



# TSSA Fuels Safety Program

## Queries?

- Contact TSSA's Customer Contact Centre toll-free **1-877-682-TSSA (8772)**
- Visit [www.tssa.org](http://www.tssa.org)



PUTTING PUBLIC SAFETY FIRST

