



Fuels Safety Communicates

Liquid Fuels

Volume 2, Issue 1

July 2001

MESSAGE FROM VICE-PRESIDENT MICHAEL PHILIP

In the last issue of Fuels Safety Communicates, I talked about the recent client survey and the areas highlighted by you for improvement. I promised to keep you up to date.

The third priority on your list was "Harmonize Regulations". Well, it's finally done. New regulations for each of the fuels sectors have been adopted with the proclamation of the new *Technical Standards & Safety Act*. This event marks the culmination of 4 years of work undertaken in conjunction with our Industry Advisory Councils, our Technical Advisory Committees and many other stakeholders. My thanks go to each and every one of them for a job well done!

One of our goals was to ensure consistency across the different fuels sectors and we believe that this has been accomplished. I hope you agree. If not, let our Engineering Department know. (tcoombes@tssa.org).

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PLEASE REGISTER ON OUR WEB-SITE

Want to be updated by e-mail, want to get the latest information first, then we suggest you register on our web-site www.tssa.org and you will have the information as fast as it can be communicated!!!!

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Technical Standards and Safety Act Becomes Law

The new *Technical Standards and Safety Act* and its supporting regulations were proclaimed and became the law in Ontario on June 28, 2001. The new *Act* replaces the seven statutes that TSSA previously administered. These included the former *Energy* and *Gasoline Handling Acts* with which you are familiar. The single *Act* ensures that the legal rules and responsibilities that apply to the industry sectors falling under TSSA jurisdiction are consistent.

Each industry sector is also subject to the applicable regulations under the new *Act*. These regulations set out administrative requirements for each sector. Each of the regulations adopts a technical code. Exceptions to National Codes that apply in Ontario are set out in a Code Adopting Document (CAD) published by TSSA.

Highlights of the changes reflected in the new regulations, CAD's and codes are provided below. Check our web site www.tssa.org for further details.

Liquid Fuels Handling

The new Liquid Fuels Handling Regulation and Code will replace the Gasoline Handling Regulation and Code. The new name reflects the fact that the Code regulates the storage and handling of all automotive fuels, not just gasoline.

Changes in the Liquid Fuels Handling Regulation include the following:

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Vice-President Message Continued

We, and the Ministry of Consumer and Business Services, are committed to a process of continuous improvement.

The new regulations adopt the latest versions of the CSA B149 series of codes and the latest B139 code. It is important that you become very familiar with the new *Act*, applicable regulations and codes. Together they set out your legal, safety and technical responsibilities. We are currently developing, in conjunction with CSA, a one-day seminar that will cover the changes and highlight common safety issues found in the field.

Meanwhile, we continue to make progress on the two top priorities highlighted in the last issue.

Many non-registered contractors have been identified and will shortly be getting a visit from their 'friendly' inspector. Again, I urge you to bring any helpful information to our attention. Your name will not be used.

Our continuing public education activities are highlighted elsewhere in this issue.

It costs approximately \$35,000 to send out each edition of Fuels Safety Communicates. Please register to receive the newsletter electronically at www.tssa.org and help reduce this cost. Finally we are considering allowing trade advertising to support more frequent issues. Do you think that is appropriate? Let me know at mphilip@tssa.org.

Please remember that Fuels Safety Communicates is your paper. Yes, it will contain information that we think is important but we also want your input on what you want to see. Please let us know.

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- The scope of the regulation has been clarified. It applies to facilities where gasoline or an associated product is handled for use as a fuel in motor vehicles

and to bulk plants where heating fuels are handled.

- Contractors and certificate holders are responsible for reporting unacceptable conditions to owners, operators and to the Fuels Safety Division.
- Contractors are authorized to inspect and accept 'modified' facilities for operation prior to FSD inspection.
- Contractors are required to mark their service vehicles with their name and registration number.

Significant changes have also been made to the Code:

- The Code has been reorganized for clarity and an index has been included to make it more user-friendly.
- Prescriptive wording has been replaced by performance wording. This change will allow FSD more latitude in recognizing new technologies and your creativity in design.
- A new section has been added to address mobile fuelling.

Fuel Oil

The new regulation and CAD adopt the new CSA B139-00, "Installation Code for Oil-Burning Equipment" that sets out the requirements for the storage, handling and utilization of fuel oil. The new regulation, CAD and code include:

- New requirements for distributor inspections of installations
- New requirements for contractors/certificate holders and distributors when addressing unacceptable or unsafe conditions
- Registration for underground fuel oil tanks
- Upgrade requirements for underground fuel oil tanks including leak detection systems, overfill protection, and cathodic protection
- New requirements for addressing spills and leaks.

Oil and Gas Pipeline Systems

The new regulation and CAD adopt the CSA B662-99, "Oil and Gas Pipeline Systems". Exceptions to the Code, set out in the CAD, include the requirement for pipeline operators to have manuals describing their pipeline integrity management programs. This is a proactive program, wherein the operators need to document their management system, their records system, and their monitoring and mitigation programs, all aimed at ensuring that the operating pipeline is capable of performing safely.

How to Obtain the New Act, Regulations, CAD's and Codes

You can see the latest copy of the Act and regulations at the Ontario Government Web Site www.e-laws.gov.on.ca or our TSSA Web Site www.tssa.org and the latest copy of the CAD's at our TSSA Web Site.

You may also pick up the paper copy at our office at 3300 Bloor St. West or request a copy to be mailed to you by writing to FSD Engineering or e-mail your request to tcoombes@tssa.org.

For copy of the latest codes (except for the Liquid Handling Fuels Code), contact CSA at (416) 747-4044 (1-800-463-6727) or visit their Web Site www.csa-international.org.

The Liquid Handling Code is in print and will be available around the time when the new codes come into effect, 90 days after the proclamation of the Act and Regulations. Watch out for the details at our Web Site www.tssa.org.

New Tracking/Invoicing System

In response to your feedback, TSSA is implementing a new invoicing system as part of our new computer and information systems. The new invoices will clearly indicate the work performed. These new

systems will also allow TSSA to better serve you, our clients. Tracking of applications for drawing reviews, field approvals, variances, and inspections will be improved.

TSSA Web Sites

TSSA has two Web sites:

www.tssa.org – for Clients and General Info

www.public-safety-first.com – for Consumers

We know that our client site is getting 'long in the tooth' and is difficult to navigate. Look forward to the launch of a completely redesigned site in the fall.

One improvement will help reduce multiple mailings that some of you have been experiencing. In the meantime, please bear with us if you still receive more than one copy of FSD Communicates.

New Fee Schedule Effective July 1, 2001

As announced in the last edition of FSD Communicates, fees are changing effective July 1. If you are renewing your licence, registration or certification after July 1, your renewal notice will reflect the fee change.

Regulatory Issues

Cathodic Protection: Clarification of Monitoring Authorities

There has been recent confusion related to the scope of the certificate offered by the Ontario Petroleum Contractor's Association (OPCA) for monitoring cathodic protection systems. The scope of the OPCA certificate is limited to testing cathodic protection systems and providing reports, as required by the Code, to the system owners. OPCA's Board of Directors has expressed agreement with this interpretation. The testing may also

be conducted by the Steel Tank Association of Canada (STAC) certificate holders, as noted in our March 1996 Regulatory Bulletin.

Neither the OPCA certificate nor the STAC certificate permit either the design of system upgrades or the provision of recommendations on the suitability of specific cathodic protection options for existing systems. This work is restricted to professional engineers and National Association of Corrosion Engineers (NACE) qualified personnel.

The replacement of cathodic anodes is maintenance, as defined in the Code, which can be completed by a suitably qualified contractor and petroleum equipment mechanic.

Any contractors with questions related to the scope of their activities under either NACE, STAC or OPCA certifications should contact John Wastle, Chief Engineer at jwastle@tssa.org, or (416) 325-9608 (1-877-682-TSSA).

New Petroleum Equipment Mechanic Certification for Small Tank Installation

Petroleum Equipment Mechanic certification regulations under the Technical Standards & Safety Act make provision for certification of installers of aboveground storage tankage under 5000 litres capacity. Former regulations provided certification for tankage of all sizes only. The new class of certification, to be known as the PM4, was developed in response to feedback from agents who install small storage tanks as a service for their customers and who commented that mandatory training for the installation of all tank sizes was too difficult to achieve. The new PM4 certification allows the installation of tanked under 5000 litres together with dispensing equipment where both components are supplied as a single unit. The PM4 certificate does not allow the holder to complete piping work.

People who have previously attended training courses that were developed with this class of installation in mind will receive their PM4 certificate.

For more information concerning this new certificate, please contact Training and Certification at training@tssa.org.

Common Infractions – Watch Out for These

Tank & Leak Protection

Section 5(34) of Gasoline Handling Code requires that the underground storage tank cathodic protection system be tested and certified in writing to the owner by a qualified person (see the clarification above). Section 5(40) requires a manual or approved automated inventory control system to measure and reconcile the content of the tanks and keep proper records. These two requirements are often neglected by gas station operators.

These two requirements are intended to ensure the integrity of the underground tank system and to prevent and detect the leaking of product from the tanks. Leak clean up costs can be exorbitant so be smart and ensure the safeguards are in place.

Safety Tips

Maintain Your Equipment

Proper maintenance can save money and prevent accidents.

Recent Case - A gasoline spill occurred at a service station. A tanker was delivering gasoline to the service station when the hose disconnected spilling 500 litres of gasoline into the catch basin before the fuel supply was shut off at the tanker. The gasoline went into the sewage system and was found to be in explosive limits. The fire department was

called in to flush the system and a main road was closed to traffic.

The incident was caused by a broken shaft sleeve on the coupling.

Proper Tank Installation

Tanks shall be installed so as to prevent settling, sliding or lifting (to prevent spillage and costs of cleaning up and removing any contaminated soil).

Recent Case – A fuel oil spill occurred. A fuel oil tank located in the basement of the residence toppled over, resulting in a spill of 700 litres of fuel oil. The fuel oil flowed to a floor drain, through a weeping tile bed and into a nearby stream where it was contained by the local fire department. The fuel oil tank was installed on a thin layer of asphalt over gravel. The weight of the tank caused uneven settling, resulting in the tank falling over.

StartSmart®

With the warm summer months around us, campers, cottagers and backyard barbecue enthusiasts are gearing up for entertaining and cooking outdoors. Barbecues are back in action. A recent survey conducted by TSSA indicated that only 40% of the public were able to recall the need 'to open the barbecue before lighting' and only 18% knew that it was important to 'clean the venturis'!

To help ensure that Ontarians are enjoying their barbecues free of incident, we are once again embarking on a province-wide public education campaign, StartSmart®, to prevent avoidable gas barbecue fires and explosions. StartSmart® posters and brochures will be featured at key barbecue and retail outlets across the province. StartSmart® tags, which can be attached to the cylinder or the barbecue, are also available to remind users of tips on the safe operation of barbecues.

We are very pleased to announce that, this year, OPA has joined us in promoting the StartSmart® program.

Last year's program was a tremendous success. The StartSmart® program reached thousands of Ontario residents with important BBQ safety information through the tour and through strategic partnerships. StartSmart® information was distributed to 600 Liquor Control Boards of Ontario (LCBO) outlets, local fire departments, Canadian Tire, Home Hardware, Home Depot and propane dealers.

TSSA's StartSmart® Safety Team will be touring the province again this summer in our Safety Cruiser. They will be visiting fairs, carnivals and retail outlets in cities and towns across the province. For details and latest schedule visit our public safety Web-site www.public-safety-first.com or contact Michele Vanderwoude at mvanderwoude@tssa.org or (416) 325-9236 (1-877-682-TSSA).

Our dream is to have a StartSmart® safety tag hanging on every barbecue or cylinder. With your help we will make barbecuing a safe activity that is free of incident. We urge you to obtain a supply of the tags and attach them to your customer's cylinders when you are refilling them.

TSSA is offering the brochures and tags at no cost. If you are interested in participating in this program, contact Michele Vanderwoude at mvanderwoude@tssa.org, or (416) 325-9236 (1-877-682-TSSA).

Quality Assessment Programs Update

Contractor Quality Assessment Program

This voluntary program was formally launched in June 2000 and is designed to recognize the high standard of work performed by contractors and their staff. The program includes verifications of legal

requirements and provides individual training to all fuel employees. The main focus of the program is to provide education/consultation services and to distinguish the quality players. To date over 50 contractors have been Quality Assessed and their comments have been as follows:

"It was the best money I ever spent"
"Company moral increased"
"I partnered with TSSA in this program"
"I improved my due diligence"

Become a leader among your peers – inquire about the Contractor Quality Assessment Program today. Quality Assessed Contractors include: Climatecare companies, Ultramar contractors, Honeywell, Enbridge, Lennox, E.S. Fox, The State Group and many independents.

Facility Quality Assessment Program

This voluntary program was launched in November 2000 and is designed to recognize the high standard of fuels related work performed by companies and their staff. Facilities, any places that have fuels related equipment, are responsible for the safe operation of such equipment. This TSSA program is designed to assist facilities in attaining compliance and better ensuring safe, efficient use of their fuels equipment. Companies that have participated in the program, include Ford Canada, Daimler Chrysler, Navistar International, Meritor Suspension, ESAM Group and McNeil Consumer Healthcare. Become a leader among your peers and better ensure safety in your plant – inquire about the Facility Quality Assessment Program today.

For more information on either program, contact Sandra Cooke at scooke@tssa.org or 416-325-0211 (1-877-682-TSSA).

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Fax Number for the above is (416) 326-1662

For inquiries about how to apply for a licence, registration or certificate or their status, contact:

Certification kmcilveen@tssa.org
(416) 325-2803

Licensing and mjohnson@tssa.org
Registration (416) 325-2924

Manager of Licensing, abrown@tssa.org
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For inquiries about qualifications to obtain certification, contact

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