



Technical Standards and Safety Authority  
www.tssa.org

14th Floor - Centre Tower  
3300 Bloor Street West  
Toronto Ontario M8X 2X4  
Fax: 416.231.4903  
Customer Service: 1.877.682.8772

**Level 1 Risk and Safety Management Plan (RSMP)**  
*Technical Standards and Safety Act*  
Propane Storage and Handling Regulation

This Level 1 RSMP applies to:
 

- a facility with a total propane storage capacity of 5,000 USWG or less; or
- a facility with a fixed propane storage capacity of exactly 5,000 USWG and no more than 500 USWG of portable propane storage capacity on site.

<p style="text-align: center; font-size: small;">Failure to fully complete this form may result in rejection. Making a false statement may result in a fine or prosecution under the <i>Technical Standards and Safety Act</i></p> <p><b>Licence Number</b> <input style="width: 80%;" type="text" value="76646364"/></p> <p>Check applicable type of propane operations.</p> <p> <input checked="" type="checkbox"/> Cylinder                <input checked="" type="checkbox"/> Motor Fill                <input type="checkbox"/> Filling Plant                <input type="checkbox"/> Card/Keylock         </p> <p style="font-size: x-small;">Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.</p>	<p style="text-align: center; font-weight: bold;">For Office Use Only</p> <div style="border: 1px solid black; height: 100px; width: 100%; background-color: black;"></div>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**SECTION A: GENERAL INFORMATION**

The Undersigned applies to TSSA for a review for an RSMP under Ontario's *Technical Standards and Safety Act*, Propane Storage and Handling Regulation.

<b>A</b> Company Name	FRASERWAY RV CENTRE LIMITED			Ontario Corporation No. (if applicable)
Operator Name (if different from above)	FRASERWAY RV LIMITED PARTNERSHIP			
Telephone No.	Fax No.	E-mail		
(705) 458-0001	705-458-0071	Rob.B@Fraserway.com		
<b>B</b> Street No.	Street Name / 911 Number / Address, if applicable			
5362	Simcoe County Rd 27			
Town / City or Township / County	Province	Postal Code		
Cookstown	ONT	L0L 1L0		
<b>Mailing address if different from above.</b>				
<b>C</b> Street No.	Street Name / 911 Number / Address, if applicable			
747	CLIVDEN PLACE			
Town / City or Township / County	Province	Postal Code		
DELTA	BC	V3M 6C7		

<b>Information on Container Refill Centre or Filling Plant</b>		
Location of facility		
<b>D</b> Street No.	Street Name / 911 Number / Address, if applicable	Nearest Major Intersection
5362	Simcoe County Rd 27	Simcoe County Rd 27/ Sideroad 5
Town / City or Township / County	Province	Postal Code
Cookstown	ONT	L0L 1L0

Name of Licence Holder	
FRASERWAY RV CENTRE LIMITED	
Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT)	ROT type
Robert Bell	100-01
Municipality (or municipalities if the facility or its hazard distance touches multiple borders)	
Town of Innisfil	
Hours of operation	

This document is valid until the next licence renewal date. You are required by law to notify TSSA of any change of information.

**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Print name	Signature	Date (dd-mm-yyyy)
Name of Licence Holder FRASERWAY RV CENTRE LIMITED		07/06/2011
Name of Senior Management person as defined in the Regulation holding the Record of Training Robert Bell		



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Technical Standards and Safety Act  
Propane Storage and Handling Regulation

**SECTION A: GENERAL INFORMATION (cont'd)**

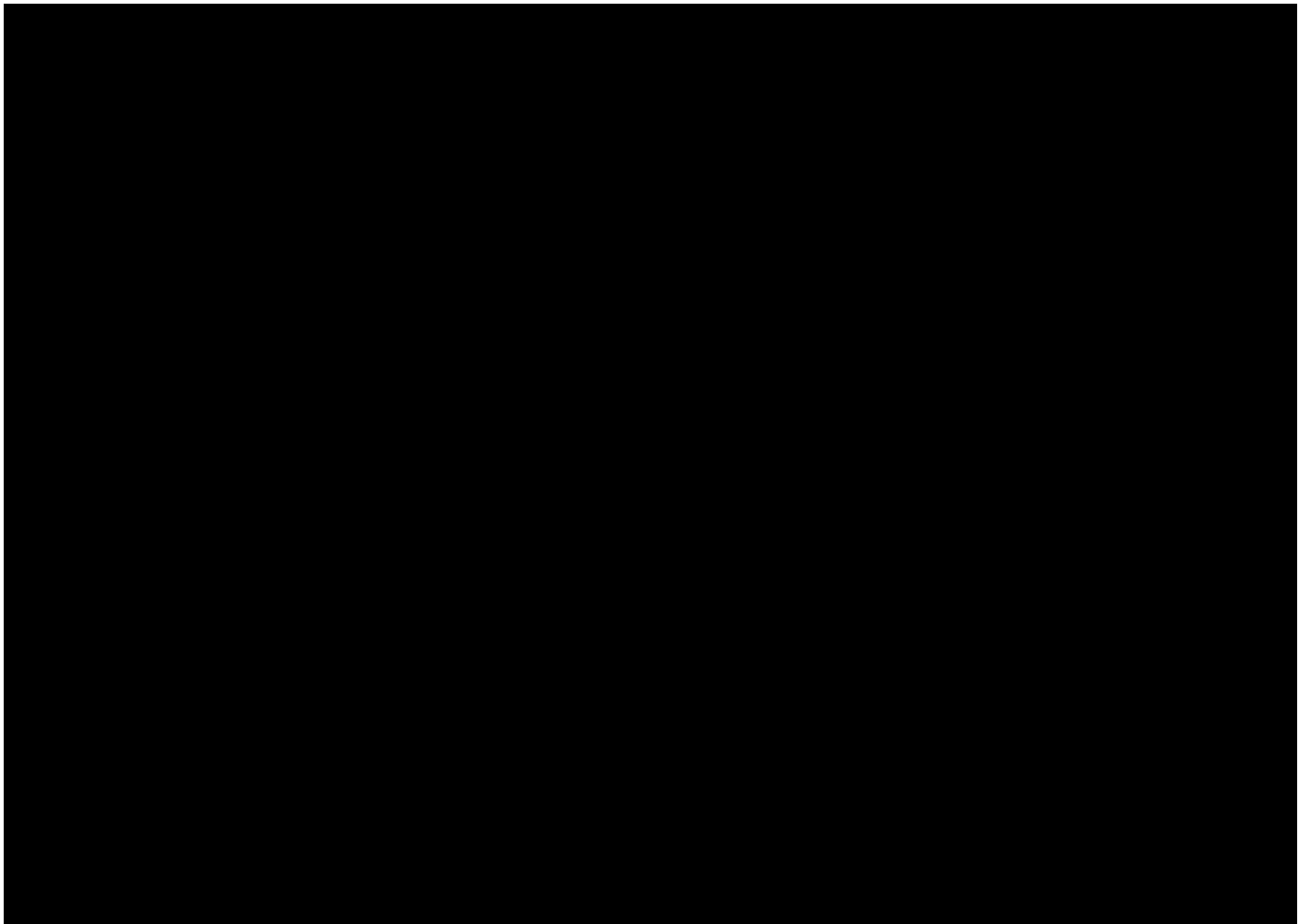
Indicate the year the facility was established.      Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.  
2007      NONE

Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank 1:	250	4876798
Tank 2:		
Tank 3:		

Enter capacity of propane in USWG, fixed, portable, and mobile, and provide detailed inventory that includes the number of tank/vessel for each type (fixed, portable, and mobile) and the capacity of each tank/vessel, on a separate document.

Fixed: 1000 USWG      Portable: 87.6 USWG      Mobile: 0



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Name of person completing this form (please print)		Official Title	
Robert Bell		Service Manager	
Signature		Telephone No.	Date (dd-mm-yyyy)
		705-458-0001	07/06/2010



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**SECTION A: GENERAL INFORMATION (cont'd)**

Activity Information

Name of Propane Supplier(s) Superior Propane - Ontario Regional Operations Centre		For Office Use - Party No. [REDACTED]	
Street No. 251	Street Name / 911 Number / Address, if applicable Woodlawn Road West, Unit 217		
Town / City or Township / Country Guelph		Province Ontario	Postal Code N1H 8J1
Telephone No. 1-877-873-7467	Fax No. 519-836-7766	Contact Name Mike Mullins	
E-mail mullinsm@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No. [REDACTED]	
Superior Propane			
Street No. 789	Street Name / 911 Number / Address, if applicable Bayview Drive		
Town / City or Township / Country Barrie		Province Ontario	Postal Code L4N 9A5
Telephone No. (416) 459-9705	Fax No.	Contact Name Dan Parmenter	
E-mail parmentd@superiorpropane.com			

Off-site Cylinder and/or Mobile Storage None	Capacity stored off-site, in USWG	For Office Use - Party No.	
Street No. / Street Name / 911 Number / Address, if applicable			
Town / City or Township / Country		Province	Postal Code
Telephone No.	Fax No.	Contact Name	

Note: Customer storage is not considered off-site storage.

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Name of person completing this form (please print) Robert Bell	Official Title Service Manager		
Signature 	Telephone No. 705-458-0001	Date (dd-mm-yyyy) 07/06/2010	



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN**

The licence holder will complete Section B in consultation with the local Fire Services.

Description of the maximum volume, types and storage location of other hazardous materials on site, if any.

NONE

Description of fire and emergency equipment indicated on facility site map.

ABC Fire Extinguishers located at the Fill Station, at Emergency Shut off--SouthEast Corner of Shop.

Also, one located inside store at main door.

List of fire protection controls (e.g., fire detection systems, fire notification systems, alarm systems, automatic shut off devices, fusible links, etc.) and describe their function, use and operation.

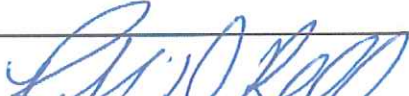
1. Fusible link on ISC valve - isolation valve between the tank and the downstream propane dispensing equipment.
2. Emergency stop push button - mounted on a post near the propane tank. This shuts down the pump and closes a solenoid valve upstream of hoses.
3. Power supply breaker inside service building. This cuts all power to the propane system - shuts down pump; closes solenoid valve.

Maintenance and testing schedule for fire protection controls and devices.

Maintenance and testing is undertaken by Superior Propane according to Superior Propane's Maintenance Standard. Schedule for key equipment is:

1. Pumps (Pump every 3 months; Pump Motor: check belts monthly; grease motor every 6 months)
2. ISC Valves (test for closure every 6 months)
3. Power supply breaker inside the gas bar building. This cuts all power to the propane system - shuts down pump; closes solenoid valve.

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Signature 	Telephone No. 705-458-0001
	Date (dd-mm-yyyy) 07/06/2011



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

1. Contacts for Emergency Response

<b>1. Facility Contact Personnel - Key Contact</b>		<b>5. Facility 24-Hour Contact Person</b>	
Name Robert Bell	For Office Use - Party No.	Name Robert Bell	For Office Use - Party No.
Official Title Service Manager		Official Title Service Manager	
Telephone No. 705-458-0001	Fax No. 705-458-0071	Cell No. 705-715-3205	Fax No. 705-458-0071
E-mail Rob.B@Fraserway.com		E-mail Rob.B@Fraserway.com	
Role and responsibilities in emergency Coordinate Site Response (ERP)		Role and responsibilities in emergency Coordinate Site Response (ERP)	
<b>2. Facility Contact Personnel - Alternate Contact</b>		<b>6. Name of Facility Manager</b>	
Name Rick Roy	For Office Use - Party No.	Name Shawn Morton	For Office Use - Party No.
Official Title RV Technician		Official Title General manager	
Telephone No. 705-458-4330	Fax No. N/A	Telephone No. 705-458-0001	Fax No. 705-458-0071
E-mail N/A		E-mail Shawn.M@Fraserway.com	
Role and responsibilities in emergency Serve as alternate to coordinate site response (ERP) when Key contact is not available.		Role and responsibilities in emergency Coordinate site response (ERP) if Key contact is unavailable.	
<b>3. Local Fire Services - Key Contact</b>		<b>7. Propane Supplier Key Contact Person</b>	
Name Randy Smith	For Office Use - Party No.	Name Superior Propane (Hot Line)	For Office Use - Party No.
Official Title Fire Chief	E-mail rsmith@innisfil.ca	Official Title	E-mail
Telephone No. 705-436-2763	Fax No. 705-436-2706	Telephone No. 1-877-873-7467	Fax No.
Role and responsibilities in emergency Co-ordinate/advice on Municipality of Innisfil Fire Service Response. Liaise with local police		Role and responsibilities in emergency	
Fire Services Address 780 Innisfil Beach Road, Innisfil, On. L9S 2C3		Propane Supplier Address Identify 7dispatch SuperiorPropane & or LPGERC response personal as required	
<b>4. Local Fire Services - Alternate Contact</b>		<b>8. Municipal Contact</b>	
Name Mike Symes	For Office Use - Party No.	Name Jason Reynar	For Office Use - Party No.
Official Title Fire Prevention Officer	E-mail N/A	Official Title City Clerk	
Telephone No. 705-436-2763	Fax No. 705-436-2706	Telephone No. 705-436-3710	Fax No. 705-436-7120
Role and responsibilities in emergency Alternate- Co-ordinate/advice on Municipality of Innisfil Fire Response. Liaise with police when Fire Chief is unavailable.		E-mail jreynar@innisfil.ca	
Fire Services Address 780 Innisfil Beach Road, Innisfil, On. L9S 2C3		Municipality Name and Address Town of Innisfil, 2101 innisfil Beach Road, Innisfil, On L9S 1A1	

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Signature 	Telephone No. 705-458-0001
	Date (dd-mm-yyyy) 07/06/2011



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

2. Additional Safety Measures

Describe any other measures in place at the facility that exceed the minimum Code and Standards requirements.  
Emergency stop button located on the outside of building, this will cut power and shut down solenoid stopping flow of propane

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

3. Record of Emergency Training Provided - For most recent 12-month period.

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Training Date (dd-mm-yyyy) None	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

Training on the facility's Emergency Management Procedures provided to staff.

Training Date (dd-mm-yyyy) None	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Training Date (dd-mm-yyyy) 22/04/2010	Print Name of Training Provider: FSN Training	
	Print Name of Instructor: Bill Bird	Note: ROT valid for 3 years
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

4. Emergency Training Plan for Coming Year

Training on Emergency Response Plan and Procedures provided to facility key contacts.

Target Date (dd-mm-yyyy) Q4-2011	Print Name of Training Provider: Superior Propane	Please note: The Canadian Propane Association is currently developing the course content and it and it's provider should be available to teach in the fourth quarter of this year
	Print Name of Instructor: to be arranged	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	content and it and it's provider should be available to teach in the fourth quarter of this year
	Print Name of Instructor:	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

Training on the facility's Emergency Management Procedures provided to staff.

Target Date (dd-mm-yyyy) Q4- 2011	Print Name of Training Provider: Key Contact
	Print Name of Instructor: to be arranged
Target Date (dd-mm-yyyy)	Print Name of Training Provider: Superior Propane
	Print Name of Instructor:
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

On-site specific training provided to certificate holders / persons with Records of Training.

Target Date (dd-mm-yyyy) Q4- 2011	Print Name of Training Provider: Superior Propane	Note: ROT are valid for 3 years
	Print Name of Instructor: to be arranged	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

5. Emergency Response Communications Plan

**Warnings and Actions**

Describe who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate)  
The operator or alternate will contact emergency services by calling 911 and will provide warnings outlined in the attached "Propane Emergency Response Procedures" placard (to be posted on site and part of the employee training). If it is safe to do so this could involve advising neighbours to evacuate. The owner/operator may also contact Superior Propane via the emergency number identified in the ERP.

Describe what action is to be taken and by whom when a warning is issued (including details of a meeting place in a safe identified area and activating the evacuation plan, if necessary).

The owner/operator or alternate should first follow the actions in the ERP provided herein. Stage evacuation, if the release of propane cannot be stopped; by cutting electrical power may be required. Note a specific muster point is not advisable, since a propane plum can blow in any direction.

Actions will be taken by an on duty ROT person(s)

Note that the facility is in a wide open area allowing people to self evacuate.

**Communication with Emergency Response Authorities**

Describe when and how the licence holder will give early warning to emergency response authorities (including a process to ensure that a call is placed to 911).

When the system is operational, a ROT person will be on duty and be in the propane tank area. This person will be able to visually ascertain any abnormal/accident events and implement the appropriate emergency response actions. When the system is not in operation, the ISC valve (main isolation valve) is closed, and the propane system is unattended. Any accidents involving the propane tank during such times will require the intervention of random, nearby individuals or store staff.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.

The propane tank system is located in a wide open area that is easily accessible off Simcoe County Road 27

The fire access routes are identified in the attached site plan.

Describe how the licence holder will ensure continual flow of updated information to authorities.

The critical information required from the license holder is (a) how to shut the system down and (b) the fill level in the tank (if known)

Fill level is relevant from a time-to-BLEVE perspective (a near empty tank will BLEVE sooner than a full tank if there is fire impingement on the tank).

This information will be provided to the authorities by agent -Robert Bell or alternate person, time permitting .

How long will it take the facility liaison person to respond to the site.

Approximately 10 minute's after having received the emergency call.

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

**6. Building and Site Security and Procedures**

- |                                                                                                                                                                                       | Yes                                 | No                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1. Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)?                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Is there adequate night lighting at the site?                                                                                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Are there procedures that capture and record the daily inspection of hoses and inspection requirements for filling systems and mechanical devices used in the transfer of propane? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders?                                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Are weighing systems validated for accuracy?                                                                                                                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)?                                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves)                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Is the schedule of maintenance and testing activities retained on site?                                                                                                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**7. Water Supply**

The propane licence holder should work with the local fire department to determine water supply capabilities that are available based on the propane facility's location.

- |                                                                                                                                                       | Yes                                 | No                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 1. Is a pressurized water system available at the propane facility site?                                                                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2. Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location?                                                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only)            | 1000 m _____                        |                                     |
| 4. What is the unobstructed distance to the closest approved water supply with year round access if there are no hydrants? ( distance in metres only) | N/A _____                           |                                     |

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Signature 		Telephone No. 705-458-0001	Date (dd-mm-yyyy) 07/06/2011



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

8. Licence holder and local Fire Services Review

**To be completed by the Local Fire Services**

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes

No

If not, please explain (e.g., no fire services).

Fire services comments, if any:

**To be completed by the Licence Holder**

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by: \_\_\_\_\_ (dd-mm-yyyy)

**LOCAL FIRE SERVICES**

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name	Signature	Date (dd-mm-yyyy)
Local Fire Services Name		

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Name of person completing this form (please print) Robert Bell	Official Title Service Manager	
Signature <i>Robert H Bell</i>	Telephone No. 705-458-0001	Date (dd-mm-yyyy) 07/06/2011

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**From:** "Randy Smith" <rsmith@innisfil.ca>  
**To:** "Dave Kennedy" <dave.kennedy@fsntraining.com>  
**Sent:** Monday, October 17, 2011 4:05 PM  
**Subject:** RE: RSMP - Fraserway RV - 5362 Simcoe County Rd 27, Cookstown.

Dave

Could you confirm if they have a fill station or is this a supply tank for a heating system?

Under Contacts please list Mike Symes, Fire Prevention Officer as the alternate contact.

Water supply: Looks like we would have to drive by the tank if we wanted to use the pond, if this is the case I would remove it as an alternate water supply. I'm also looking at the closest Fire Hydrant to see what the actual distance is.

Minor items to look at the rest of the document looks fine.

Randy Smith  
Fire Chief  
705-436-2763 Ext. 402



*This information is intended only for the person, persons, entity, or entities to which it is addressed; does not necessarily represent the views of the Town of Innisfil; may contain information that is privileged, confidential or exempt from disclosure under the Municipal Freedom of Information and Protection of Privacy Act. If the reader is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you received this communication in error, please notify us immediately by return e-mail and delete the correspondence from your computer*

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**From:** Dave Kennedy [mailto:dave.kennedy@fsntraining.com]  
**Sent:** October-16-11 8:10 PM  
**To:** Randy Smith  
**Subject:** RSMP - Fraserway RV - 5362 Simcoe County Rd 27, Cookstown.

Hi Randy: In mid September we sent a Risk & Safety Management Plan to you for review and comment. I'm just following up to find out if you have had a chance to look at it. I would appreciate it if you could provide me with an update. Thank you.

*Dave Kennedy  
FSN Training & Development Inc.  
14 Forestview Trail  
Newmarket, ON L3Y 4W1  
Tel: 905-642-8579  
Fax: 905-642-8578  
[www.fsntraining.com](http://www.fsntraining.com)*



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Propane Storage and Handling Regulation

**SECTION C: SUBMISSIONS**

Applicant must include a Facility Site Plan and Map of Surrounding Area

**Facility Site Plan.**

The licence holder will submit a copy of the original facility site plan updated with the following information:

1. The storage location of fixed, portable, and mobile vessels.
2. The maximum volume, types and storage location of hazardous materials.
3. Location of permanent structures on site.
4. Access and egress points and location of barriers.
5. Location of fire and emergency equipment (e.g., sprinkler systems, extinguishers, suppression systems) on site and location of fire hydrant or water supply where available.
6. Location of emergency shut off/shut down switches/valves.

**Map of Surrounding Area.**

The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

7. The capacity and placement of the single largest propane storage vessel, including its setback from the front, rear and side property lines.
8. GPS co-ordinates of the single largest vessel.
9. Visual indication of the single largest fixed vessel and a circle made using the distance in Table 1 as the radius from the single largest fixed vessel.
10. Clear indication of the municipality or municipalities present within the circle.
11. Visual indication of property line information.
12. The location and name of roads within or abutting the site.
13. Key note to the drawing indicating the facility's municipal address, municipal lot number(s) and concession lines as applicable, and the date the map was prepared.
14. Address and contact information for each municipality (municipal clerk or secretary-treasurers of planning board). (Refer to page 5.)
15. Complete "Required Mapping Information from Updated Site Plan" in table below .

**Required Mapping Information from Updated Site Plan**

Date Map Prepared (dd-mm-yyyy) 02-09-2011	Capacity of single largest propane storage vessel (USWG) 1000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 87 m	Right side property line: 131 m
Rear: 40 m	Left side property line: 47 m
GPS coordinates of single largest vessel: Lat 44.2073, Long -79.706	

**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Name of person completing this form (please print) Robert Bell	Official Title Service Manager
Signature 	Telephone No. 705-458-0001
	Date (dd-mm-yyyy) 07/06/2011



Technical Standards and Safety Authority  
www.issa.org

14th Floor - Centre Tower  
3300 Bloor Street West  
Toronto Ontario M8X 2X4  
Fax: 416.231.4903  
Customer Service: 1.877.682.8772

Level 1 Risk and Safety Management Plan (RSMP)  
Technical Standards and Safety Act  
Propane Storage and Handling Regulation

**SECTION C: SUBMISSIONS (cont'd)**

Applicant must include a Facility Site Plan and Map of Surrounding Area

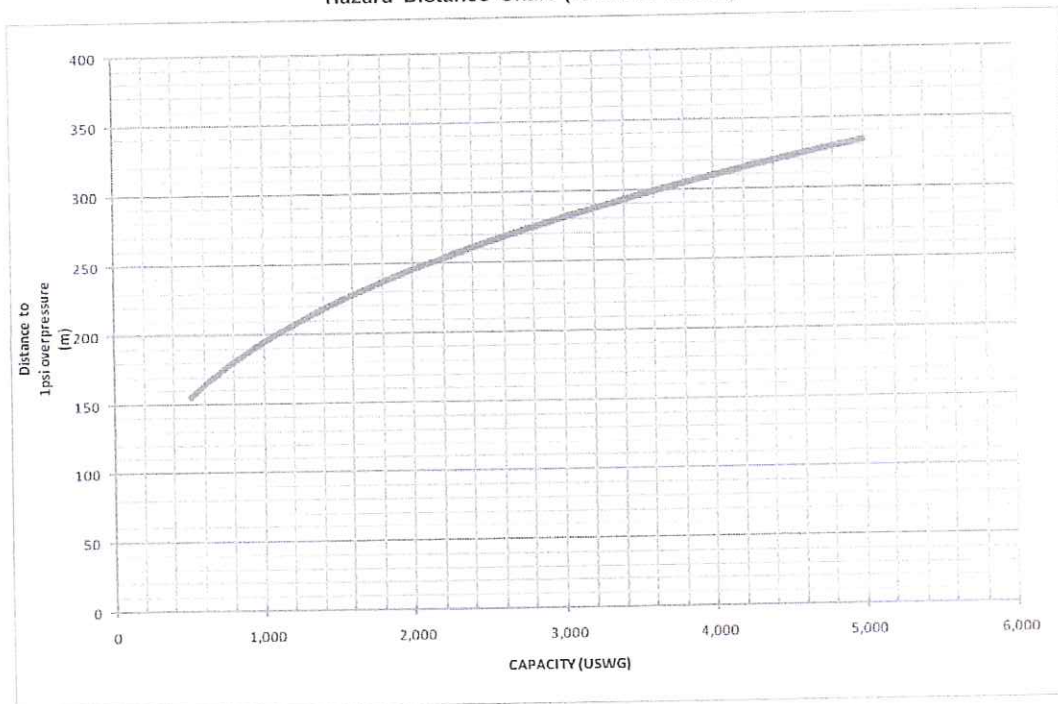
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,890	500	155
3,780	1,000	195
4,920	1,300	213
6,620	1,750	235
7,130	1,885	241
7,560	2,000	246
18,900	5,000	333

**Formula:**  $D = 16.94 \times (1.524 \times C)^{1/3}$   
 D = Distance to overpressure of 1 psi (meters)  
 C = Tank Total Capacity in USWG

**Parameters:** Density of Propane is 0.5033 kg per litre @ 15 C  
 Assume all vessels are 80% full  
 1 gallon [US, liquid] = 0.003785411784 cubic meter  
 1 cubic metre = 264.17 USWG

Hazard Distance Chart (EPA-TNT model)





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**Level 1 Risk and Safety Management Plan (RSMP)**  
*Technical Standards and Safety Act*  
Propane Storage and Handling Regulation

**SECTION C: SUBMISSIONS (cont'd)**

Applicant must include a Facility Site Plan and Map of Surrounding Area

As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

**Table 2: Buildings and Features**

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				0 m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [REDACTED]			x		52.5 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				0 m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				0 m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				0 m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				0 m

\* For multi-unit buildings, count each unit as "1".

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Name of person completing this form (please print) Robert Bell	Official Title Service Manager
Signature 	Telephone No. 705-458-0001
	Date (dd-mm-yyyy) 07/06/2011



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*Technical Standards and Safety Act*  
Propane Storage and Handling Regulation

**WORKSHEET**

Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5		
# 40	11.75		
# 33.3	9.62		
# 30	8.8	6	52.8
# 20	5.8	6	34.8
# 10	2.9		
# 5	1.5		
<b>Total Cylinder Capacity</b>			87.6 USWG

Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
None	0	0
<b>Total Tank Capacity</b>		0

<b>Total Cylinder Capacity</b>	87.6 USWG
<b>Total Tank Capacity</b>	1000 USWG Propane dispenser tank
<b>Total Portable Capacity</b> (Total Cylinder Capacity + Total Tank Capacity)	87.6 USWG

**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Name of person completing this form (please print) Robert Bell	Official Title Service Manager	
Signature 	Telephone No. 705-458-0001	Date (dd-mm-yyyy) 07/06/2011



Section B - Emergency and Preparedness Response Plan – Appendix

Fraser RV Centre Ltd. 5362 County Road 27, RR#1 Cookstown, On

Question 1: Controlled Access to propane filling station

Posts /security fence used to protect from vehicular traffic

Cabinet is closed and locked when filling station not in use.

Question 2: Adequate Night Lighting

Site has night lighting

Question 3: Procedures for keeping access routes etc. clear

Included in Superior Propane Daily Start-up Procedures for Operating a Transfer Facility

Question 4: Procedures for inspecting hoses and equipment

Included in Superior Propane Daily Start-up Procedures for Operating a Transfer Facility

Part of PTI Propane Pump Attendant training module

Question 5: Procedures for isolating and purging any overfilled cylinders

Appendix E of Superior Propane “Propane Dispenser Operating Procedures”

Question 6: Validating weighing systems for accuracy

Daily scale check included as part of PTI Propane Pump Attendant training manual

Annual check completed by Superior Propane who contracts this out to a scale company

Question 7: Storage Areas marked for “empties”, “fulls” & other hazardous materials

Operator to provide signage

Question 8: Quality Assurance Procedures to ensure that valves are closed after filling

Valve closure step included in PTI Propane Pump Attendant training manual

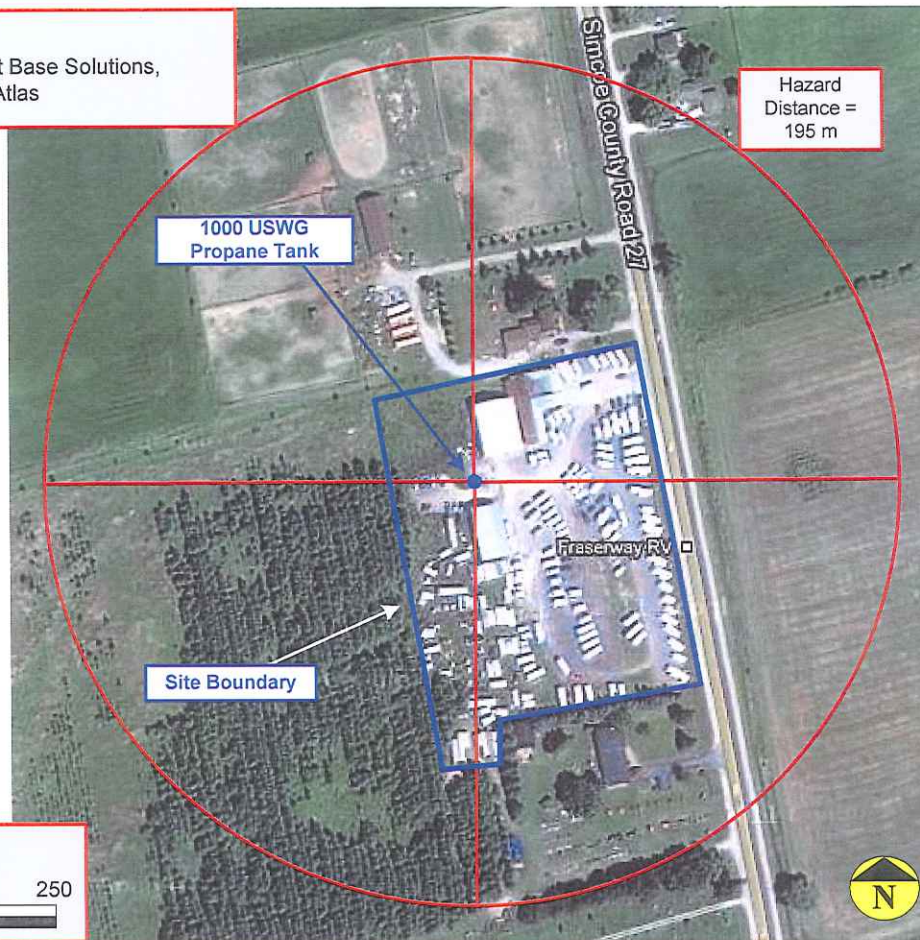
Question 9: Schedule of Maintenance and Testing Activities

Maintenance and Testing schedule on Pg 4 of RSMP

Superior Propane completes annual inspection

Testing included as part of SP Dispenser Operating Procedures

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 Map data ©2011 Google, Tele Atlas

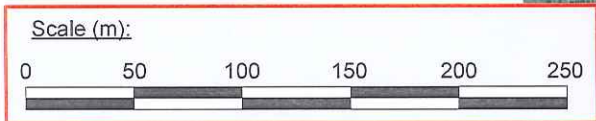


Hazard  
 Distance =  
 195 m

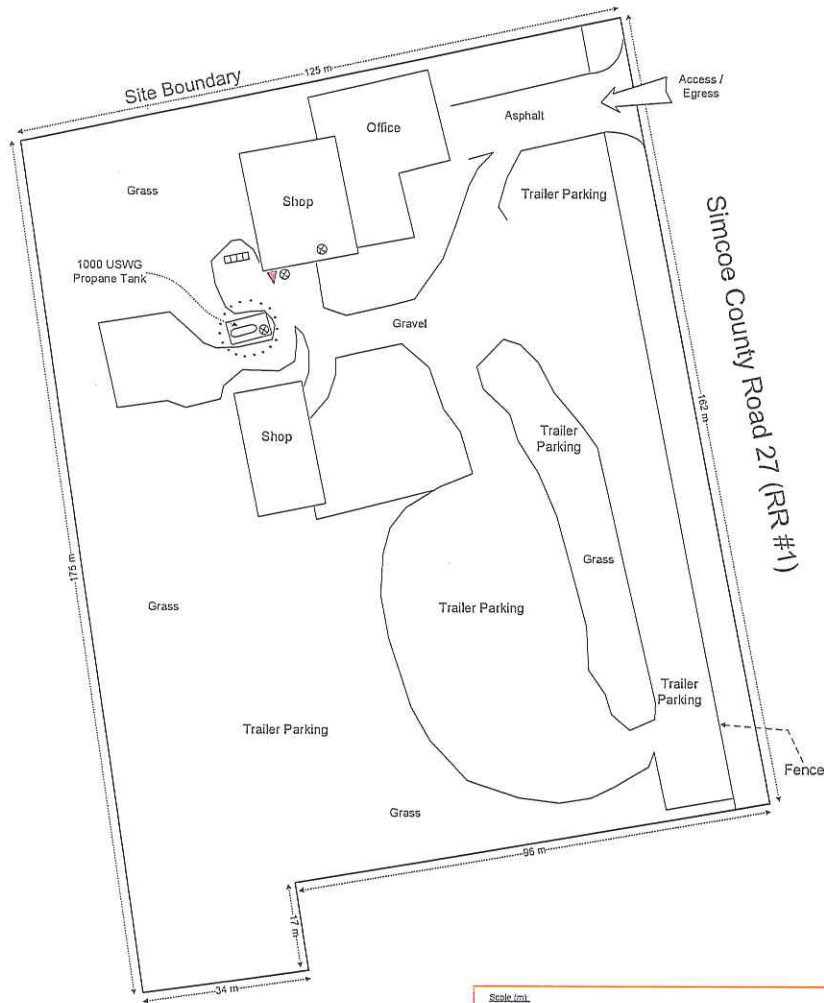
1000 USWG  
 Propane Tank

Site Boundary

Fraserway RV



<p><b>Setback Distances to Site Boundary</b></p> <p>North: 47 m    East: 87 m          South: 131 m    West: 40 m</p>	<p><b>Municipality (ies) within the 1 psi overpressure circle:</b></p> <p>Town of Innisfil</p>	<p align="center"><b>Map of Surrounding Area</b></p> <p align="center"><b>Fraserway RV Centre Ltd.</b>          5362 County Road 27 (RR #1), Cookstown,          ON, L0L 1L0  <i>Concession 11, Lot 4, Township of Essa, Region of Simcoe</i></p>
<p><b>Capacity of Propane Storage Tank:</b></p> <p>Capacity of Propane Storage Tank = 1000 USWG</p>	<p><b>Municipal Contact:</b></p> <p>Jason Reynar          Director of Legal Services/ Town Clerk, Town of Innisfil          2101 Innisfil Beach Road, Innisfil, ON, L9S 1A1          Tel: 705-436-3710    Fax: 705-436-7120          Email: jreynar@innisfil.ca</p>	
<p><b>GPS Co-ordinates of Propane Storage Tank:</b></p> <p>GPS Co-ordinates = 44.2073, -79.706</p>	<p>Drawn by: S. Oliverio      Date: September 2, 2011</p>	
<p><b>Circular Distance to 1 psi overpressure:</b></p> <p>Denoted by circle centred on tank; radial distance = 195 m</p>		



**Notes:**

1. Tank distances to property lines:

Property Line Setbacks	Distance
North	47 m
South	131 m
East (Front)	87 m
West	40 m

2. Fire Extinguisher

3. Egress/Fire Access Route:  
Site is wide open, egress/access point from Simcoe County Road 27.

4. E-Stop

5. Cylinder Cage

**FSN Training & Development**

Title: **Site Plan**  
**Fraserway RV Centre Ltd.**  
 5362 County Road 27 (RR #1), Cookstown, ON, L0L 1L0

*Concession 11, Lot 4, Township of Essa, Region of Simcoe*

Drawn by: S.Oliverio

Checked by:

Date: September 2, 2011

Rev 0

# PROPANE EMERGENCY RESPONSE PROCEDURES

## EMERGENCY CONTACT NUMBERS (OR CALL 911)

Fire Department: \_\_\_\_\_

Police Department: \_\_\_\_\_

Superior Propane: \_\_\_\_\_

1-877-873-7467

Contact the Fire Department and the Police Department immediately if a propane emergency situation arises. Use a telephone outside the area affected by the leak.

### PROPANE LEAKAGE WITH FIRE

### PROPANE LEAKAGE WITHOUT FIRE

#### FIRST CONTROL THE LEAK, THEN PUT OUT THE FIRE

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"><li>1. Clear people from the immediate area.</li><li>2. Clear people from buildings, away from the propane tank, if applicable, and if it is safe to do so.</li><li>3. Do not extinguish fire unless fuel feeding the fire can be shut off.</li><li>4. Shut off power to dispenser and pump motor if it is safe to do so.<ul style="list-style-type: none"><li>• Via Emergency Stop (if available), or</li><li>• Via Power Supply breaker</li></ul></li><li>5. Close tank valve to stop flow of propane, if it is safe to do so.</li><li>6. Apply water to tank and piping exposed to heat.</li><li>7. Apply water to the vapour space of the tank to keep the tank cool. If there is insufficient water to keep the tank cool, evacuate the area.</li></ol> | <ol style="list-style-type: none"><li>1. Clear people from the immediate area.</li><li>2. Clear people from buildings, away from the propane tank, if applicable, and if it is safe to do so.</li><li>3. Stay upwind from the vapour (wind at your back).</li><li>4. Shut off power to dispenser and pump motor if it is safe to do so.<ul style="list-style-type: none"><li>• Via Emergency Stop (if available), or</li><li>• Via Power Supply breaker</li></ul></li><li>5. Remove sources of ignition.</li><li>6. Close tank valve to stop flow of propane, if it is safe to do so.</li><li>7. Disperse gas with water spray and stay behind water spray for protection in case of ignition.</li></ol> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Superior.**  
Propane

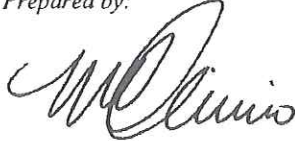
**Propane Dispenser Operating Procedures**

Prepared by:



Ken Gillis  
Safety and Technical  
Specialist (Ontario Region)

Prepared by:



Marcello Oliverio  
Chief Engineer – Process  
Safety Management

Reviewed by:



John McCormack  
National Regulatory  
Specialist



This document contains generic operating procedures for propane dispensing facilities. It fulfills the requirements of the Level 1 RSMP.

Procedures for the activities identified below are contained in the appendices that follow:

- (Appendix A) Daily Start-up Procedure for Operating the Propane Transfer Facility.
- (Appendix B) Testing the Emergency Stop System
- (Appendix C) Filling Propane Cylinders by Weight
- (Appendix D) Transfer Facility (Dispenser) Procedure for Filling a Motor Fuel Tank
- (Appendix E) Handling of an Overfilled Cylinder

## Propane Dispenser Operating Procedures

### Appendix A

#### Daily Start-up Procedure for Operating the Propane Transfer Facility

##### Prerequisites:

- Review and be familiar with the PTI – 100 – 01 Propane Pump Attendant Training Program.
- Have the necessary Record of Training (ROT).

##### Stepwise Procedure:

(To be documented daily)

If you are not familiar with the terms or requirements of this procedure contact your supervisor.

Before opening the tank and cylinder cabinets:

1. Check the area to ensure that the access routes and area surrounding the propane tank(s) are clear and that there are no unwanted materials.
2. Check that there are no ignition sources within 3 metres (10 feet) of the filling area.
3. Dress properly for dispensing propane. Wear long sleeves, long pants, neoprene gloves, safety eyewear, and safety footwear. Do not wear nylon jackets or coats.
4. Walk around the area to visually identify potential hazards, to listen for audible leaks, and to detect the scent of propane odours. If a leak is suspected do not open the cabinet, contact your supervisor.
5. Ensure all operating and warning signs are clear and legible.
6. Check the tank level for sufficient propane levels.
7. Remove any garbage especially flammables/combustibles from the dispensing area.
8. Open the tank cabinet and inspect for any indications of propane leaks. If a leak is suspected contact your supervisor. Do not operate the dispenser.

**Propane Dispenser Operating Procedures**

Opening Primary Tank Valves:

1. Slowly open the tank ISC liquid supply by using the handle or cable attachment. Open other manual valves necessary to operate the dispenser pump. Again watch and listen for leaks.
2. Interlock the ISC control handle with the door. Ensure that the door cannot be closed while the ISC valve is open (code requirement). If the door is not interlocked as required, contact your supervisor.
3. Your site may have an E-Stop system that shuts down the motor and electric solenoids in the event of an emergency. This system should be tested weekly.
4. Visually check the hoses, nozzles and other mechanical devices. Do not operate the system if anything appears abnormal.
5. Record daily start-up procedure and propane level in tank.
6. You are now ready to operate the dispenser facility.
7. Close door (and ISC valve) when the system is unattended.

**Propane Dispenser Operating Procedures**

**Appendix B**

**Testing the Emergency Stop System (Once per Week)**

**Prerequisites:**

- Review and be familiar with the PTI – 100 – 01 Propane Pump Attendant Training Program.
- Have the necessary Record of Training (ROT).

**Stepwise Procedure:**

(To be documented weekly)

If you are not familiar with the terms or requirements of this procedure contact your supervisor.

1. Open all valves in the tank cabinet.
2. Ensure that all fill nozzles are closed and secured.
3. Start the pump and leave it pumping for the test. Do not operate the pump longer than required to complete this test.
4. Immediately push the E-stop button.
5. Pump power and solenoids should close.
6. If all solenoids and the pump do not close, contact your supervisor. Do not operate the system.
7. Document the test once completed.



**Propane Dispenser Operating Procedures**

**Appendix C**

**Filling Propane Cylinders by Weight**

**Prerequisites:**

- Review and be familiar with the PTI – 100 – 01 Propane Pump Attendant Training Program.
- Have the necessary Record of Training (ROT).

**Stepwise Procedure:**

If you are not familiar with the terms or requirements of this procedure contact your supervisor.

**Before filling any cylinder, the cylinder must receive a pre-fill visual examination or inspection.**

1. Check the inspection date stamped on the cylinder shell or collar. Make sure it's within the last 10 years.
2. Make sure the Dangerous Goods shoulder label is on the cylinder. If the cylinder is going to a workplace, it must also have a WHMIS label on the cylinder.
3. Look for corrosion, especially on the bottom of the cylinder. Check that no area on the cylinder is badly corroded or deeply pitted.
4. Look for dents. If they are large, deep, have sharp angles or include a weld, do not fill the cylinder.
5. Look for cuts, gouges, or digs that can reduce the thickness of the cylinder walls and weaken them.
6. Make sure the collar is protecting the cylinder service valve. Check that the welds securing the collar to the cylinder are not broken.
7. Make sure the footing is not bent and that it supports the cylinder in an upright, stable position. Check that the welds securing the footing to the cylinder are not cracked or broken.
8. If a cylinder is bulged or deformed from contact with fire, or if the paint has been scorched, the cylinder must be taken out of service.

## Propane Dispenser Operating Procedures

### Before starting to fill

16. Check that there are no ignition sources within 3 metres (10 feet) of the filling area.
17. Dress properly for dispensing propane. Wear long sleeves, long pants, neoprene gloves, safety eyewear and safety footwear. Do not wear nylon jackets or coats.

### To fill a propane cylinder by weight:

1. Place the cylinder on the scale and weigh the cylinder before filling. If the weight of the cylinder exceeds the stamped tare weight on the cylinder, there may be some propane left in the cylinder.
2. Mark the weight down as Weight "in". Subtract the tare weight of the cylinder from the weight "in" to determine how much propane is left in the cylinder.
3. Inform the customer how much propane is in the cylinder, how much will be added, and what the cost will be.
4. Set the scale for the proper weight of the cylinder when filled. The filling weight is the:
  - Tare weight of the cylinder **plus**
  - the weight of the propane (42% of the stamped water capacity **plus**
  - the weight of the filling hose and nozzle.
5. Connect the filling nozzle to the cylinder service valve. Make sure the cylinder is placed on the centre of the scale platform.
6. Open the cylinder service valve, open the filling hose nozzle, and start the pump.
7. Check the cylinder service valve threads and valve stem for leaks using a commercial leak detection solution or a 50/50 mixture of soap and water. Expanding bubbles indicate a leak. If a leak is detected, stop the filling process until the leak is repaired.
8. Watch the scale beam closely. As soon as the beam starts to rise, close the filler hose nozzle. Turn off the pump.
9. Close the cylinder valve. To bleed off the small amount of propane between the filler hose nozzle and the cylinder service valve, slowly unscrew the filler hose nozzle from the cylinder service valve. Disconnect the filling hose nozzle from the cylinder service valve.

**Propane Dispenser Operating Procedures**

10. Close all valves after cylinder is filled.

11. Move the scale beam indicator until the beam "floats". Read the finished weight from the scale beam and record this as the weight "out".

If the cylinder is overfilled, the excess propane liquid must be removed before the cylinder is returned to the customer. Follow company procedure to safely remove the excess propane liquid.

If the cylinder weighs less that it should, follow the cylinder filling procedure to add more propane, or invoice the Customer for the amount of propane you put into the cylinder.

**Note:** the OPD may prevent filling the cylinder to 42% of its water capacity

<b>MEASUREMENT CANADA LIMIT OF ERROR ALLOWABLE: 0.5%</b>	
<b>9.1kg cylinder = 45.5 grams</b>	<b>20lb cylinder = 1.6 ounces</b>
<b>13.6kg cylinder = 68.2 grams</b>	<b>30lb cylinder = 2.4 ounces</b>
<b>45.5kg cylinder = 227.3 grams</b>	<b>100lb cylinder = 8.0 ounces</b>

Customers must be told how much propane was put into their cylinder. The amount of propane that you tell the Customer is in the cylinder must be within the 0.5% error limit set by Measurement Canada as shown in the above table.

To arrive at the amount of propane put into the cylinder, simply subtract the "IN" weight from the "OUT" weight you recorded. The difference is the amount of the propane put into the cylinder

Follow the Company's invoicing procedures to invoice the Customer for the amount of propane put in the cylinder

The invoice should indicate:

- The minimum charge, if applicable, or cost of propane; and
- The amount of propane delivered

## Propane Dispenser Operating Procedures

### Appendix D

## Transfer Facility (Dispenser) Procedure for Filling a Motor Fuel Tank

### Prerequisites

Review and be familiar with the PTI – 100 – 01 Propane Pump Attendant Training Program.

Have necessary Record of Training (ROT).

### Stepwise Procedure:

If you are not familiar with terms or requirements of this procedure contact your supervisor.

1. Before filling, make sure the vehicle has a provincially accepted decal in place. This label may be located on the front windshield, rear window or side window. A vehicle with no label, or an expired label, cannot be legally filled with propane.
2. The filling area is a restricted zone. Make sure there are no ignition sources within 3 meters (10 feet) of the filling connection. This means **NO SMOKING, NO OPEN FLAMES, NO VEHICLES LEFT RUNNING, and NO PILOT LIGHTS LEFT ON**, such as those in travel trailers, RV's, catering trucks and cargo vans.
3. Remove the dust cap from the liquid filler valve on the vehicle tank. Check that the "O" ring or gasket in the filler valve is in place and clean.
4. Remove the transfer hose and nozzle from the holder at the dispenser and connect the nozzle to the vehicle filler valve. Tighten firmly by hand. Check for leaks.
5. Open the fixed liquid level gauge (spit valve) to allow an audible hiss as the propane vapour is released.
6. Start the pump, which will automatically reset the meter to zero. Depending on the dispenser system, begin filling by either (a) squeezing the nozzle trigger, or (b) setting the nozzle trigger latch and pushing in the deadman switch. Keep the nozzle trigger or deadman switch engaged during the entire filling process.
7. When a white fog is flowing steadily from the fixed liquid level gauge (spit valve), the tank is considered full.
8. Release the nozzle trigger or deadman switch immediately. Do not be tempted to round up either the volume or dollar amount.

***Propane Dispenser Operating Procedures***

9. Close the fixed liquid level gauge (spit valve) either with fingers or a spit valve wrench. Tighten enough to provide a positive seal. **DO NOT OVER TIGHTEN.**
10. Turn off the pump.
11. Disconnect the filler hose nozzle from the filler valve.
12. Return the filler nozzle to the dispenser holder.
13. Check the filler valve at the vehicle to ensure it's not leaking.
14. Replace the dust cap on the vehicle filler valve

**Propane Dispenser Operating Procedures**

**Appendix E**

**Handling of an Overfilled Cylinder**

**Prerequisites**

Review and be familiar with the PTI – 100 – 01 Propane Pump Attendant Training Program.

Have necessary Record of Training (ROT).

**Stepwise Procedure:**

If you are not familiar with terms or requirements of this procedure contact your supervisor.

If you suspect that a cylinder has been overfilled, do the following:

1. Tag the cylinder, identifying the time and date it was filled.
2. Carefully place the cylinder in the cylinder cage.
3. Call Superior Propane @ 1-877-873-7467 and report what has happened.

**DO NOT RETURN THE FILLED CYLINDER TO THE CUSTOMER**

**SECTION 1 – PRODUCT INFORMATION**

Product Name:	Propane	Supplier:	Superior Propane A Division of Superior Plus LP 1111 - 49th Avenue N.E. Calgary, AB T2E 8V2 Business: (403) 730-7500
Trade Name:	LPG (Liquefied Petroleum Gas), LP-Gas		
Chemical Formula:	C <sub>3</sub> H <sub>8</sub>		
WHMIS Classification:	Class A – Compressed Gas Class B, Division 1 – Flammable Gas	24-Hour Emergency Contact:	Canutec (613) 996-6666

Application and Use: Propane is commonly used as a fuel for heating, cooking, automobiles, forklift trucks, crop drying and welding and cutting operations. Propane is used in industry as a refrigerant, solvent and as a chemical feedstock.

**SECTION 2 – HAZARDOUS INGREDIENTS**

COMPONENTS	CAS No	% VOLUME (v/v)	LD <sub>50</sub> (RAT: ORAL)
Propane	74-98-6	90% -99%	Not Applicable
Propylene	115-07-1	0% - 5%	Not Applicable
Ethane	74-84-0	0% - 5%	Not Applicable
Butane and heavier hydro carbons	106-97-8	0% - 2.5%	Not Applicable

Occupational Exposure Limit:

Based upon animal test data, the acute toxicity of this product is expected to be inhalation: 4 hour LC50 = 280,000 ppm (Rat)

Note: Composition is typical for HD-5 Propane per The Canadian General Standard Board CGSB 3.14 National Standard of Canada. Exact composition will vary from shipment to shipment.

**SECTION 3 – CHEMICAL AND PHYSICAL DATA**

Form:	Liquid and vapour while stored under pressure	pH:	Not available
Boiling Point:	-42°C @ 1 atm	Solubility in Water :	Slight, 6.1% by volume @ 17.8°C
Freezing Point:	-188°C	Specific Gravity:	0.51 (water = 1)
Evaporation Rate:	Rapid (Gas at normal ambient conditions)	Appearance/Odour:	Colourless liquid and vapour while stored under pressure. Colourless and odourless gas in natural state at any concentration. Commercial propane has an odourant added, ethyl mercaptan, which has an odour similar to boiling cabbage.
Vapour Pressure:	1435 kPa (maximum) @ 37.8°C	Odour Threshold:	4800 ppm
Vapour Density:	1.52 (Air = 1)		
Coefficient of Water/Oil Distribution:	Not available		

With proper handling, transportation and storage, adding a chemical odourant such as ethyl mercaptan has proven to be a very effective warning device, but all odourants have certain limitations. The effectiveness of the odourant may be diminished by a person's sense of smell, by competing odours and by oxidation which may cause a potentially dangerous situation.

**SECTION 4 – FIRE OR EXPLOSION HAZARD**

Flash Point: -103.4°C  
 Method: Closed cup  
 Flammable Limits: Lower 2.4%, Upper 9.5%  
 Auto Ignition Temperature: 432°C  
 Hazardous Combustion Products: Carbon monoxide can be produced when primary air and secondary air are deficient while combustion is taking place.  
 Fire and Explosive Hazards : Explosive air -vapour allowed to leak to atmosphere.  
 Sensitivity to Impact: No  
 Sensitivity to Static Discharge: Yes

Fire Extinguishing Precautions: Use water spray to cool exposed cylinders or tanks. Do not extinguish fire unless the source of the escaping gas that is fueling the fire can be turned off. Fire can be extinguished with carbon dioxide and/or dry chemical (BC). Container metal shells require cooling with water to prevent flame impingement and the weakening of metal. If sufficient water is not available to protect the container shell from weakening, the area will be required to be evacuated. If gas has not ignited, liquid or vapour may be dispersed by water spray or flooding.

Special Fire Fighting Equipment: Protective clothing, hose monitors, fog nozzles, self-contained breathing apparatus.

**SECTION 5 – REACTIVITY DATA**

Stability: Stable  
 Conditions To Avoid: Keep separate from oxidizing agents. Gas explodes spontaneously when mixed with chloride dioxide.  
 Incompatibility: Remove sources of ignition and observe distance requirements for storage tanks from combustible material, drains and openings to building.

Hazardous Decomposition Products: Deficient primary and secondary air can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

## SECTION 6 – TOXICOLOGICAL PROPERTIES OF MATERIAL

Routes of Entry: Skin Contact, Eye Contact, Inhalation

Inhalation: Simple asphyxiant. No effect at concentrations of 10,000 ppm (peak exposures). Higher concentrations may cause central nervous system disorder and/or damage. Lack of oxygen may cause dizziness, loss of coordination, weakness, fatigue, euphoria, mental confusion, blurred vision, convulsions, breathing failure, coma and death. Breathing high vapour concentrations (saturated vapours) for a few minutes may be fatal. Saturated vapours may be encountered in confined spaces and/or under conditions of poor ventilation. Avoid breathing vapours or mist.

Skin and Eye Contact: Exposure to vapourizing liquid may cause frostbite (cold burns) and permanent eye damage.

Ingestion: Not considered to be a hazard.

Acute Exposure: Contact with Liquefied Petroleum Gas may cause frostbite or cold burns. Propane acts as a simple asphyxiant as oxygen content in air is displaced by the propane. At increasing concentration levels, propane may cause dizziness, headaches, loss of coordination, fatigue, unconsciousness and death.

Chronic Exposure: No reported effects from long term low level exposure.

Sensitization to Product: Not known to be a sensitizer.

Occupational Exposure Limits: American Conference of Governmental Industrial Hygienists (ACGIH) lists as a simple asphyxiant.

ACGIH TLV: 1000 ppm

Carcinogenicity, Reproductive Toxicity, Teratogenicity, Mutagenicity: No effects reported.

Other Toxicological Effects: None

## SECTION 7 – PREVENTATIVE MEASURES

Eyes: Safety glasses or chemical goggles are recommended when transferring product.

Skin: Insulated gloves required if contact with liquid or liquid cooled equipment is expected. Wear gloves and long sleeves when transferring product.

Inhalation: Where concentration in air would reduce the oxygen level below 18% air or exceed occupational exposure limits in section 6, self-contained breathing apparatus is required.

Ventilation: Use in well-ventilated areas. Use with explosion proof mechanical ventilation in confined spaces or poorly ventilated areas.

## SECTION 8 – EMERGENCY AND FIRST AID PROCEDURES

Eyes: Should eye contact with liquid occur, flush eyes with lukewarm water for 15 minutes. Obtain immediate medical care.

Skin: In case of "Cold Burn" from contact with liquid, immediately place affected area in lukewarm water and keep at this temperature until circulation returns. If fingers or hands are frostbitten, have the victim hold his hand next to his body such as under the armpit. Obtain immediate medical care.

Ingestion: None considered necessary.

Inhalation: Remove person to fresh air. If breathing is difficult or has stopped, administer artificial respiration. Obtain immediate medical care.

Spill or Leak: Eliminate leak if possible. Eliminate source of ignition. Ensure cylinder is upright. Disperse vapours with hose streams using fog nozzles. Monitor low areas as propane is heavier than air and can settle into low areas. Remain upwind of leak. Keep people away. Prevent vapour and/or liquid from entering into sewers, basements or confined areas.

## SECTION 9 – TRANSPORTATION, HANDLING AND STORAGE

- Transport and store cylinders and tanks secured in an upright position in a ventilated space away from ignition sources (so the pressure relief valve is in contact with the vapour space of the cylinder or tank).
- Cylinders that are not in use must have the valves in the closed position and be equipped with a protective cap or guard.

- Do not store with oxidizing agents, oxygen, or chlorine cylinders.
- Empty cylinders and tanks may contain product residue. Do not pressurize, cut, heat or weld empty containers.
- Transport, handle and store according to applicable federal and provincial codes and regulations.

Transportation of Dangerous Goods (TDG)  
TDG Classification: Flammable Gas 2.1

TDG Shipping Name: Liquefied Petroleum Gas (Propane)  
PIN Number: UN1075

## SECTION 10 – PREPARATION INFORMATION

Prepared by: Superior Propane  
Health Safety and Environment Team

Telephone: (403) 730-7500  
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Supersedes: March 1, 2008

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