# Technical Standards and

14th Floor - Centre Tower 3300 Bloor Street West Standards and Safety Authority Fax: 416.231.4903
www.tssa.org 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.

	F Ma	aking a	a false statement ma	is form may result in rejec ay result in a fine or prose Standards and Safety Act	ction. cution			
Licer	nce Number	00764	467786-C					
Check	L applicable type	of prop	ane operations.	The state of the s				
	✓ Cylinder		Motor Fill	Filling Plant	Card/Keylock			
Subm	100000000000000000000000000000000000000			/ Site Plan and a Map of the Su				
				<i>a.</i>	- 1010-1-101			
	4-)}			SECTION A: GE	NERAL INFO	ORMATION		
The Prop	pane Storag	je an	plies to TSSA f d Handling Rec	or a review for an Ri julation.	SMP under Or	ntario's <i>Technical</i>		Is and Safety Act,  Corporation No., if applicable
A	Costco Whole		td					
-	Operator Name							
				f the Nepean store phone:	613-727-4768)			
	Telephone No. 1-800-463-378	33	Fax No.	E-mail service@costco.co	a			
В	Street No.		-	imber / Address, if applicable				- 11
	415		West Hunt Club Ro					
	Town / City or T	ownshi	p / County			Province		Postal Code
	Ottawa					Ontario		K2E 1C5
_	Mailing addre Street No.	ss if	Street Name / 911 No	/e. umber / Address, if applicable				
	Town / City or To	ownship	/County			Province		Postal Code
Inf	ormation on	Conta	ainer Refill Centre	or Filling Plant				
	Location of fac Street No.	cility.	Street Name / 911 No	mber / Address, if applicable		Nearest Major Intersecti	on	
D	1849		Merivale Road	mbor / / dai coo; ii applicatio		Merivale Road & Hunt		d
Į						Province		Postal Code
ı	Town / City or To	wnship	7 County			Ontario		K2G 1E3
ļ	Nepean					Ontario		
	Name of Licence I	Holder						
Ī	Larry Pifer (Wa	rehous	se Manager @ Nepe	ean store)				
	Name of a Senio	r Mana	gement person as defi	ned in the regulation holding th	e Record of Training	(ROT).	ROT typ	pe
	Robert Moyer						PTI 100	0-08
L	Municipality (or municipalities if the facility or its hazard distance touches multiple borders)							
T)	City of Ottawa							
1_								
	Hours of operatio	n.						

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.

Printname  Name of Licence Holder Darren Pudrycki (Warehouse Manager @ Nepean store)	Signature	Date (dd-mm-yyyy) 16-10-2013
Name of Senior Management person as defined in the Regulation holding the Record of Training Robert Moyer	Am	16-10-2013



14th Floor - Centre Tower 3300 Bloor Street West Safety Authority
Toronto Ontario M8X2X4
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 A: GENERAL INFORMATION (cont'd)

996	Indicate the year of any significant November 2013 - TMS system ins	t modifications, as defined in s.1, O.Reg 211/01, since establishment.
entify the psig rating and serial number for e	ach fixed propane storage tank on si	ite.
PSIG	Serial Number	
Tank1: 250 psig	unknown at this time	
Tank2:		
Tank3:		and and find the control and
ter capacity of propane in USWG, fixed, po	rtable, and mobile, and provide deta	ailed inventory that includes the number of tank/vessel for
ch type (fixed, portable, and mobile) and the	e capacity of each tank/vessel, on a	separate document.
Fixed: 2000 USWG	070 11014/0	OHSWC
Fixed.	Tortable.	modio.

Name of person completing this form (please print) Ken Mole	Official Title Project Manager		
Signature V 7/1/	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013	



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

SECTION	A:	<b>GENERAL</b>	INFORMATION	(cont'd)

Activity Information For Office Use - Party No. Name of Propane Supplier(s) Superior Propane - Ontario Regional Operations Centre Street Name / 911 Number / Address, if applicable 251 Woodlawn Road West, Unit 217 Postal Code Province Town / City or Township / Country N1H 8J1 Ontario Guelph Contact Name Fax No. Telephone No. Bruce Graham, Ontario Operations Manager 519-836-7766 1-877-873-7467 E-mail grahamb@superiorpropane.com For Office Use - Party No. Name of Propane Transporter. If same as above, please check box. Superior Propane - Ottawa Propane Bulk Plant Street Name / 911 Number / Address, if applicable Street No. Roydon Place 63 Postal Code Province Town / City or Township / Country Ontario **K2E 1A3** Ottawa Contact Name Telephone No. Fax No. Heather Ross, Market Manager 613-314-8003 N.A E-mail rosshe@superiorpropane.com For Office Use - Party No. Capacity stored off-site, in USWG Off-site Cylinder and/or Mobile Storage None Street Name / 911 Number / Address, if applicable Street No. Postal Code Province Town / City or Township / Country

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

Fax No.

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.

Contact Name

Name of person completing this form (please print) Ken Mole	Official Title Project Manager	
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyyy) 16-10-2013

Telephone No.



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

# 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.  1. Fires extinguisher locations: a) 1 on the inside pillar of the canopy by the propane filling station, b) 2 in the tire centre c) and 1 at tire sales.
2. Fire Department Connection - located inside the tire centre, immediate notification to Fire Services.
3. Emergency stop push button located outside of the tire centre. This will shut down the pump and close a solenoid valve upstream of hoses.
4. Power supply breaker located inside the building will cut all power to the system.
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. E-Stop on outside wall (at tire centre) - cuts all power except 24 DC, shuts down the pump, and closes a solenoid valve (upstream of hoses) to stop flow.
2. Power supply breaker inside the building - cuts all power to the propane system, shuts down the pump, and closes solenoid valve. 3. Fusible link on ISC
valve - isolation valve between the tank and the downstream propane dispensing equipment. 4. ISC valve interlock bar (interlocked with cabinet door) - ISC
valve closes when door is closed. 5. Leak Detection System at dispenser will trigger system shutdown @ 60% LFL and triggers audible alarm.
Maintenance and testing schedule for fire protection controls and devices.  1. Fire extinguishers will be maintained by Costco as per Ontario Fire Regulations and replaced as per manufacturer's recommendations. 2. The gas
detection/auto shutdown/audible alarm system will be maintained and tested every 6 months by Total Meter Service. 3. Other equipment - i.e, pumps,
valves, etc. will be maintained/tested by Superior Propane according to the requirements in the Superior Propane Maintenance Standard. According to this
Standard - ISC valves will be tested every 6 months; pumps will be maintained every3 months. Fusible links inspected twice annually. Records kept for 5 yrs.

Name of person completing this form (please print) Ken Mole	Official Title Project Manager		
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013	



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Safety Authority
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 B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key	/ Contact		5. Facility 24-Hour Contact Person	1	
Name	, comac	For Office Use - Party No.	Name Darren Pudrycki		For Office Use - Party No.
Todd Wagner Official Title Tire Centre Manager			Official Title Warehouse Manager		
Telephone No. 613-727-4786	Fax No. 613-727-02	237	Cell No. 613-286-4030	Fax No. 613-727-0237	
E-mail w540tsm@costco.com			E-mail w540mgr@costco.com		
Role and responsibilities in emergence	У	*	Role and responsibilities in emergence	У	
Coordinate site response			Coordinate site response		
2. Facility Contact Personnel - Ali	ternate Co	ntact	6. Name of Facility Manager		
Name Daryl Hunt		For Office Use - Party No.	Name Darren Pudrycki		For Office Use - Party No.
Official Title Assistant Warehouse Manager			Official Title Warehouse Manager		
Telephone No. 613-727-4786	Fax No. 613-727-0	237	Telephone No. 613-727-4786	Fax No. 613-727-0237	
E-mail	•		E-mail		
w540mgr4@costco.com			w540mgr@costco.com	Pour Laboratoria	
Role and responsibilities in emergency	У		Role and responsibilities in emergency		
Coordinate site response if agent unava	ailable.		Coordinate site response		
3. Local Fire Services - Key Contact	ct		7. Propane Supplier Key Contact Po	erson	
Name John DeHooge		For Office Use - Party No.	Name Superior Propane		For Office Use - Party No.
	E-mail rocco.iame	For Office Use - Party No.	3 August (100)	E-mail N/A	For Office Use - Party No.
John DeHooge Official Title		ello@ottawa.ca	Superior Propane Official Title		For Office Use - Party No.
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No.	rocco.iame Fax No. 613-580-28	ello@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and	N/A Fax No. N/A	
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency	Fax No. 613-580-28 y se. Liaise wit	ello@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergence	N/A Fax No. N/A y d or LPERGC eme	
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon Fire Services Address	rocco.iame Fax No. 613-580-28 y se. Liaise wit	ello@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address	N/A Fax No. N/A y d or LPERGC eme	ergency response
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON	rocco.iame Fax No. 613-580-28 y se. Liaise wit	ello@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8	N/A Fax No. N/A y d or LPERGC eme	
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON 4. Local Fire Services - Alternate C Name	rocco.iame Fax No. 613-580-28  y se. Liaise wit  K1Z 7L9  contact  E-mail	ello@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8.  8. Municipal Contact Name	N/A Fax No. N/A y d or LPERGC eme	ergency response
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON 4. Local Fire Services - Alternate C Name Rocco Iamello Official Title	rocco.iame Fax No. 613-580-28  y se. Liaise wit  K1Z 7L9  contact  E-mail	Billo@ottawa.ca  Billo@ottawa.ca  Bror Office Use - Party No.	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8.  8. Municipal Contact Name Mitchell LeSage Official Title	N/A Fax No. N/A y d or LPERGC eme	ergency response
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon  Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON 4. Local Fire Services - Alternate C Name Rocco lamello Official Title Division Chief - Fire Prevention Telephone No. 613-580-2424 Role and responsibilities in emergency	rocco.iame Fax No. 613-580-28 y se. Liaise wit K1Z 7L9 contact  E-mail rocco.iame Fax No. 613-580-28	Billo@ottawa.ca  B64  The police.  For Office Use - Party No.  B10@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8.  8. Municipal Contact Name Mitchell LeSage Official Title Development Information Officer - City of Telephone No. 613-580-2424 x13902 E-mail	N/A Fax No. N/A y d or LPERGC eme	ergency response
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON 4. Local Fire Services - Alternate C Name Rocco lamello Official Title Division Chief - Fire Prevention Telephone No. 613-580-2424	rocco.iame Fax No. 613-580-28 y se. Liaise wit K1Z 7L9 contact  E-mail rocco.iame Fax No. 613-580-28	Billo@ottawa.ca  B64  th police.  For Office Use - Party No.  Illo@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8.  8. Municipal Contact Name Mitchell LeSage Official Title Development Information Officer - City of Telephone No. 613-580-2424 x13902 E-mail Mitchell.LeSage@ottawa.ca	N/A Fax No. N/A y d or LPERGC eme	ergency response
John DeHooge Official Title Fire Chief - City of Ottawa Telephone No. john.dehooge@ottawa.ca Role and responsibilities in emergency Coordinate/advise on Fire Service respon  Fire Services Address 1445 Carling Ave., 2nd Floor, Ottawa, ON 4. Local Fire Services - Alternate C Name Rocco lamello Official Title Division Chief - Fire Prevention Telephone No. 613-580-2424 Role and responsibilities in emergency	rocco.iame Fax No. 613-580-28 y se. Liaise wit K1Z 7L9 contact  E-mail rocco.iame Fax No. 613-580-28	Billo@ottawa.ca  B64  th police.  For Office Use - Party No.  Illo@ottawa.ca	Superior Propane Official Title HOTLINE Telephone No. 1-877-873-7467 Role and responsibilities in emergency Identify and dispatch Superior Propane and personnel as required. Propane Supplier Address 251 Woodlawn Rd., Guelph, ON N1H 8.  8. Municipal Contact Name Mitchell LeSage Official Title Development Information Officer - City of Telephone No. 613-580-2424 x13902 E-mail	N/A Fax No. N/A y d or LPERGC eme	ergency response

roject Manager	
elephone No.	Date (dd-mm-yyyy)



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

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

2. Additional Safety Measures

Leak Detection System at dispenser will trigger system shutdown @ 60% LFL (cuts all power except 24 VDC) and triggers an audible alarm.      E-Stop on outer wall of building (at tire centre) will cut all power (except 24 DC), shut down the pump, and close a solenoid valve (upstream of hoses) to stop flow.      Stop flow.
to stop flow.

Name of person completing this form (please print)	Official Title	
Ken Mole	Project Manager	
Signature	Telephone No.	Date (dd-mm-yyyy)
62	416-229-2636	16-10-2013



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

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

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

Training on Emergency Re	sponse Plan and Procedures provided to facility key contacts.		
Training Date (dd-mm-yyyy)	Print Name of Training Provider: Costco Standard Safety Training (in-house)		
01-01-2013	Print Name of Instructor: Warehouse Manager trained Depart	tment Managers	
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 Em	nergency Management Procedures provided to staff.		
Training Date (dd-mm-yyyy)	Print Name of Training Provider: Costco Standard Safety Training (in	-house)	
01-01-2013	staff - upon hire and annual refresher training		
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 pro	ovided to certificate holders / persons with Records of Training.		
Training Date (dd-mm-yyyy)	Print Name of Training Provider: Superior Propane	Please see list at end of this form	
16-05-2013	Print Name of Instructor: Moe Bourcier		
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:		

Name of person completing this form (please print)	Official Title	
Ken Mole	Project Manager	
Signature	Telephone No.	Date (dd-mm-yyyy)
K /	416-229-2636	16-10-2013



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

4. Emergency Training Plan for Coming Year

Training on Emergency Resp	ponse Plan and Procedures provided to facility key contacts.	
Target Date (dd-mm-yyyy)	Print Name of Training Provider: Costco Standard Safety Training (i	n-house) - Department Managers
TBA 01-01-2014	Print Name of Instructor: Warehouse Manager to train Depart	rtment Managers
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:	
Training on the facility's Eme	rgency Management Procedures provided to staff.	
Target Date (dd-mm-yyyy)	Print Name of Training Provider: Costco Standard Safety Training (i	n-house)
TBA 01-01-2014	Print Name of Instructor: Department Managers to train their	r staff
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:	
On-site specific training prov	ided to certificate holders / persons with Records of Training.	
Target Date (dd-mm-yyyy)	Print Name of Training Provider: Superior Propane or Other	Please Note - a ROT is valid for 3 years
To Be Arranged as Required	Print Name of Instructor: TBA	
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:	

Name of person completing this form (please print)	Official Title	
Ken Mole	Project Manager	
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013



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

#### 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" card (to be posted on site and part of the employee training). If it is safe to do so this could involved advising neighbors 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. Staged evacuation, if the release of propane cannot be stopped by cutting electrical power may be required. The initial muster location will be on the grass boulevard in front of the 'Putting Edge' building, in a safe area and away from a dispersing propane cloud. Subsequent evacuation instructions potentially up to the Hazard Distance to be provided by municipal

emergency responders. Residences and businesses beyond the site boundary to be notified by municipal emergency responders.

#### **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. They key contact or alternate will be implementing ER actions including notifying emergency responders. Calling 911 will occur immediately after any attempts to shut down the system.

When the system is not in operation, the ISC valve (main isolation valve) is closed and the propane system is unattended but shutdown.

Any accidents involving the propane tank during such times will require the intervention of random, nearby individuals or 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 store parking lot area that is easily accessible from Merivale Road and Roydon Place.

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 information on how to shut down the system and the fill level in the tank (if known).

Fill level is relevant from a time to BLEVE perspective (a nearby 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 Larry Pifer either verbally if on-site or by phone if after hours

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

It would take the 24-hour contact, Larry Pifer, approximately 40 minutes to arrive on site after receiving an emergency call.

Name of person completing this form (please print) Ken Mole	Official Title Project Manager	
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013



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

The same of the sa	Y AUTI			
	SECTION B: EMERGENCY AND PREPAREDNESS RESP  The licence holder will complete Section B in consultation with the local formula of the security and Procedures of the security and Procedures			
	o. Domaing and a second			
1.	Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)?	Yes	No	
2.	Is there adequate night lighting at the site?	<b>✓</b>		
3.	Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials?	<b>✓</b>		
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?	✓		
5.	Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders?	<b>✓</b>		
6.	Are weighing systems validated for accuracy?	<b>✓</b>		
7.	Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)?	<b>✓</b>		
8.	Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves)	<b>√</b>		
9.	Is the schedule of maintenance and testing activities retained on site?	✓		
	7. Water Supply		a a	
The	propane licence holder should work with the local fire department to determine water ply 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?	✓		
2.	Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location?	<b>√</b>		
3.	What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only)	175 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		

Name of person completing this form (please print) Ken Mole	Official Title Project Manager	
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013



Technical Standards and Safety Authority Fax: 416.231.4903 www.tssa.org

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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 B: EMERGENCY AND PREP. The licence holder will complete Section Bir 8. Licence holder and lo	AREDNESS RESPONSE PLAN (consultation with the local Fire Services. cal Fire Services Review	ont'd)
To be completed by the Local Fire Services  Has the local fire service had an opportunity to review the Emergency Re  If not, please explain (e.g., no fire services).	Yes esponse and Preparedness Plan?	No
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 The undersigned has reviewed Section B of the Risk and Safety M		
Print name	Signature	Date (dd-mm-yyyy)

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) Ken Mole	Official Title Project Manager	
Signature	Telephone No. 416-229-2636	Date (dd-mm-yyyy) 16-10-2013

Local Fire Services Name



Technical Standards and Safety Authority Fax: 416.231.4903 www.tssa.org

14th Floor - Centre Tower 3300 Bloor Street West Toronto Ontario M8X2X4

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

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.
- 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.
- Clear indication of the municipality or municipalities present within the circle.
- 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-r 23-07-2012	nm-yyyy)		city of single largest propane USWG	e storagevessel (USWG)
Tank setback coordinates.	Indicate placeme	ent on the map.	Right side property line:	75 m East
	260 m North		Left side property line:	130 m West
GPS coordinates of single	largest vessel:	Lat.44.3339	Long79.6812	

Name of person completing this form (please print)	Official Title Project Manager		
Ken Mole Signature	Telephone No.	Date (dd-mm-yyyy)	
Kall -	416-229-2636	16-10-2013	



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### 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:

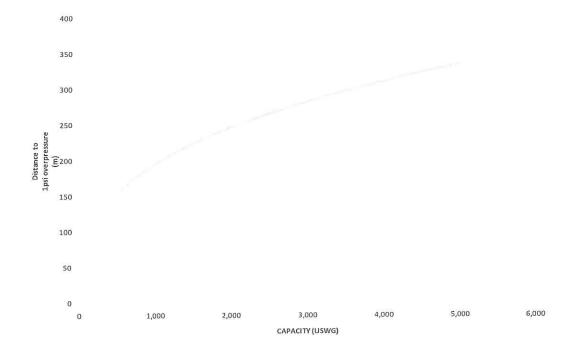
Density of Propane is 0.5033 kg per litre @ 15 C

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")  0 1 2-10 11+		Distance from Tank to Closest Building or Feature		
Industrial buildings or parks or golf courses  Name: None within the Hazard Distance  Address: Province Postal Code	X				0 m
Residential building units specifically permanent single family dwellings, condominiums, and apartments.  Name:  Address:  City:	X				0m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes.  Name: Various retail and restaurants - PetSmart, Party Packagers, Canada Computers, Goodlife Fitness,  Address: Kelsey's, Century 21, Superior Propane, Sleep Canada, Rona, etc.  City: Province Postal Code			X		75 m
Commercial building units — continuous occupancy specifically hotels, campgrounds, and resorts.  Name: None within the Hazard Distance  Address:	X				m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons.  Name: None within the Hazard Distance  Address: Province Postal Code	X				m
Emergency responders specifically fire stations, ambulance stations, and police stations.  Name: None within the Hazard Distance  Address: Province Postal Code	X				m

Thereby decides that the intern	iacioni i i i i i i i i i i i i i i i i i i	42900
Name of person completing this form (please print)	Official Title	
Ken Mole	Project Manager	
Signature	Telephone No.	Date (dd-mm-yyyy)
th_	416-229-2636	16-10-2013

<sup>\*</sup> For multi-unit buildings, count each unit as "1".



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

#### WORKSHEET

#### Portable Storage Additional Information Worksheet

Capacity in USWG	Quantity	Total Volume in USWG
123.9		
29.5		
11.75		
9.62		
8.8		
5.8	48	278.4
2.9		
1.5		
	123.9 29.5 11.75 9.62 8.8 5.8 2.9	123.9 29.5 11.75 9.62 8.8 5.8 48

#### Tanks Stored On-site Not Connected for Use

Quantity	Total Volume in USWG
0	0
	Quantity

Total Cylinder Capacity	279 USWG	
Total Tank Capacity	0 USWG	
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	279 USWG	

