



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.

Failure to fully complete this form may result in rejection. Making a false statement may result in a fine or prosecution under the *Technical Standards and Safety Act*

Licence Number 000076649085

Check applicable type of propane operations.
 Cylinder Motor Fill Filling Plant Card/Keylock

Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.



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.

Company Name 2116160 Ontario Inc. Ontario Corporation No., if applicable 2116160 Ontario Inc.

Operator Name (if different from above) o/a PetroCan Service Station

Telephone No. 416-241-7385 Fax No. 416-674-8619 E-mail thanarajah@sympatico.ca

Street No. 585 Street Name / 911 Number / Address, if applicable Dixon Road

Town / City or Township / County Toronto Province Ontario Postal Code M9W 1H7

Mailing address if different from above.

Street No. Same Street Name / 911 Number / Address, if applicable _____

Town / City or Township / County _____ Province _____ Postal Code _____



Information on Container Refill Centre or Filling Plant

Location of facility.

Street No. 585 Street Name / 911 Number / Address, if applicable Dixon Road Nearest Major Intersection Highway 401 & Dixon Road

Town / City or Township / County Toronto Province Ontario Postal Code M9W 1H7

Name of Licence Holder Selvadurai Thanarajah

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). Selvadurai Thanarajah ROT type 100-01

Municipality (or municipalities if the facility or its hazard distance touches multiple borders) City of Toronto

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 <u>Selvadurai Thanarajah</u>		<u>01-09-2011</u>
Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Selvadurai Thanarajah</u>		<u>01-09-2011</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. 2005 Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment.
No Modifications planned except for this year to increase to 5000 USWG tank

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

	PSIG	Serial Number
Tank1:	<u>250 PSIG</u>	<u>5.553276</u>
Tank2:	_____	_____
Tank3:	_____	_____

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: 5000 USWG Portable: 139.2 USWG Mobile: 0 USWG

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Name of person completing this form (please print) Thanarajah Selvadurai	Official Title Owner	
Signature 	Telephone No. 416-241-7385	Date (dd-mm-yyyy) 01-09-2011



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Superior Propane Inc.		For Office Use - Party No. [Redacted]	
Street No. 7022	Street Name / 911 Number / Address, if applicable Wellington Road 124		
Town / City or Township / Country Guelph		Province Ontario	Postal Code N1H 6L3
Telephone No. 416-706-0741	Fax No. 416-946-1647	Contact Name Reg Adamson	
E-mail adamsonr@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No. [Redacted]	
Triamc Transport			
Street No. 1700 800	Street Name / 911 Number / Address, if applicable 5th Avenue SW		
Town / City or Township / Country Calgary		Province Alberta	Postal Code T2P 5A3
Telephone No. 403-298-5100	Fax No. 403-298-5146	Contact Name Dale Eaid	
E-mail N/A			

Off-site Cylinder and/or Mobile Storage N/A	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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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.

The facility has underground gasoline and diesel tanks. It also has some lubricants and other gasoline station products such as windshield washer fluid and other cleaners but nothing that would be considered hazardous

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

The facility has fire extinguishers at the propane station and two at the gasoline/diesel stations and two inside the car wash and two inside the C-store.

The remote auto propane dispenser island also has its own Fire Extinguisher.

A remote Emergency Shutdown button (ESD) will be installed with the new tank upgrade. that will remotely shut-off the pump and the remote auto propane dispenser when pushed


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.

The Emergency Shutdown button will stop power to the propane pump and dispensers. The ISC valves on the tank will be equipped with fusible links that will melt when the temperature reaches 212 F degrees. This will cause the chain to break and close the spring loaded ISC so the valves will shut automatically.

Maintenance and testing schedule for fire protection controls and devices.

The fire extinguishers are checked annually by a certified safety company and tagged. The propane system has an annual inspection by a qualified T.S.S.A. contractor who checks all the systems and Emergency shutdown devices.

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Signature 	Telephone No. 416-241-7385	Date (dd-mm-yyyy) 01-09-2011



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

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact

Name	For Office Use - Party No.
Thanarajah Selvadurai	
Official Title	
Owner	
Telephone No.	Fax No.
416-241-7385	416-674-8619
E-mail	
thanarajah@sympatico.ca	
Role and responsibilities in emergency	
Insures all Employees are trained on the Emergency Plan and reports all incidents to Regional Manager and coordinates staffing	

5. Facility 24-Hour Contact Person

Name	For Office Use - Party No.
Thanarajah Selvadurai	
Official Title	
Owner	
Cell No.	Fax No.
416-726-8569	416-674-8619
E-mail	
thanarajah@sympatico.ca	
Role and responsibilities in emergency	
Same as Entry 1	

2. Facility Contact Personnel - Alternate Contact

Name	For Office Use - Party No.
Tejas Desai	
Official Title	
Manager	
Telephone No.	Fax No.
416-241-7385	416-674-8619
E-mail	
bo00233@suncor.com	
Role and responsibilities in emergency	
Insures all safety equipment is operational and coordinates the evacuation of the store and dispenser area and takes head count and secures site	

6. Name of Facility Manager

Name	For Office Use - Party No.
Tejas Desai	
Official Title	
Manager	
Telephone No.	Fax No.
416-241-7385	416-674-8619
E-mail	
bo00233@suncor.com	
Role and responsibilities in emergency	
Same as Entry 2	

3. Local Fire Services - Key Contact

Name	For Office Use - Party No.
Frank Lamie	
Official Title	E-mail
Deputy Fire Chief	flamie@toronto.ca
Telephone No.	Fax No.
416-338-9054	
Role and responsibilities in emergency	
Assistant to the City of Toronto Fire Chief and is in charge of staffing and insuring all resources are available for the City Fire Services	
Fire Services Address	
Toronto Fire Services, 4300 Dufferin St., 3rd Floor, Toronto, ON. M3H 5R9	

7. Propane Supplier Key Contact Person

Name	For Office Use - Party No.
Superior Propane	
Official Title	E-mail
Telephone No.	Fax No.
1-877-873-7467	
Role and responsibilities in emergency	
Member of Emergency Response Plan with Canadian Propane Association	
Propane Supplier Address	
7022 Wellington Road 124, Guelph, ON. N1H 6L3	

4. Local Fire Services - Alternate Contact

Name	For Office Use - Party No.
Jim Stoops	
Official Title	E-mail
Division Chief Fire Prevention	jstoops@toronto.ca
Telephone No.	Fax No.
416-338-9102	416-338-9492
Role and responsibilities in emergency	
Coordinates the Fire Prevention group within the Toronto Fire Services and assigns duties related to inspections and RSMP's	
Fire Services Address	
Toronto Fire Services, 4330 Dufferin St., 3rd Floor, Toronto. ON. M3H 5R9	

8. Municipal Contact

Name	For Office Use - Party No.
Tom Keefe	
Official Title	
Manager of Planning	
Telephone No.	Fax No.
416-394-8211	416-394-6063
E-mail	
tkeefe@toronto.ca	
Municipality Name and Address	
City of Toronto, Civic Centre 399 The West Mall, Toronto, ON. M9C 2Y2	

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Name of person completing this form (please print)	Official Title	
Thanarajah Selvadurai	Owner	
Signature	Telephone No.	Date (dd-mm-yyyy)
	416-241-7385	01-09-2011



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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.

Facility has the required Fire Extinguishers and also the piping is equipped with solenoid valves that are shut off when the power is removed and fail closed.

The underground piping has a sacrificial anode for cathodic protection to eliminate corrosion on the u/g piping. The tank area is protected against vehicle protection with larger posts than is required by Code

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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) TBD	Print Name of Training Provider: Suncor has their own training and safety regulations that are given to employees
	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) TBD	Print Name of Training Provider: Suncor has their own training and safety regulations that are given to employees
	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) 17-08-2008 2011-09-01	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Reg Adamson
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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Name of person completing this form (please print) Thanarajah Selvadurai	Official Title Owner
Signature 	Telephone No. 416-241-7385
	Date (dd-mm-yyyy) 17-07-2011



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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) TBD	Print Name of Training Provider: Suncor has their own training and safety regulations that are given to new employees
	Print Name of Instructor:
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 Emergency Management Procedures provided to staff.

Target Date (dd-mm-yyyy) TBD	Print Name of Training Provider: Suncor has their own training and safety regulations that are given to new employees
	Print Name of Instructor:
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 provided to certificate holders / persons with Records of Training.

Target Date (dd-mm-yyyy) 12-06-2011 12-08-2014	Print Name of Training Provider: Superior Propane
	Print Name of Instructor: Reg Adamson
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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	Date (dd-mm-yyyy) 01-09-2011



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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.

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 manager will determine the nature of the incident and then inform the outside attendant who will then warn all customers around the tan area and the gasoline area to vacate and meet at the "muster point" He also shuts off the power to the propane area. The manager clears all personnel and customers from inside and shuts off main power and takes people to the muster point and take a head count.

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 manager is responsible for instructing the outside attendants that an emergency situation exists and also he will take the staff and customers to the Emergency Meeting Point. He also checks the car wash and store to inform customers they must leave the area and go to the safe point.

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).

The manager makes the call to 9-1-1 and follows the posted emergency instructions. The phones are in the office or cell phones are always on site with the staff

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

The tank area and dispensing area are all accessible to the fire department. There are no restrictions on site to the tank or dispensing area so vehicle access and firefighter access is not restricted. Fire hydrants are very close to the site with one just in front of the facility.

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

The Owner or manager will remain on site and will interact with the emergency services personnel and inform them of the nature of the incident and the volume in the tank at the time of the incident

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

15 to 20 minutes

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Signature 		Telephone No. 416-241-7385	Date (dd-mm-yyyy) 01-09-2011



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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.

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 checked="" type="checkbox"/>	<input 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)	21 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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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	Yes	No
Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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 Sam Colavita, Inspector, Toronto Fire Services		01-09-2011

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Thanarajah Selvadurai	Owner	
Signature	Telephone No.	Date (dd-mm-yyyy)
	416-241-7385	01-09-2011



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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) June 10, 2011	Capacity of single largest propane storage vessel (USWG) 5000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 9.5 m	Right side property line: 90 m
Rear: N/A	Left side property line: 4.9 m
GPS coordinates of single largest vessel: Lat:43°41'26.76"N Long:79°34'24.97W	

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Name of person completing this form (please print) J. Ross Keys	Official Title Consultant	
Signature 	Telephone No. 416-526-1405	Date (dd-mm-yyyy) 31-08-2011



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SECTION C: SUBMISSIONS (cont'd)

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

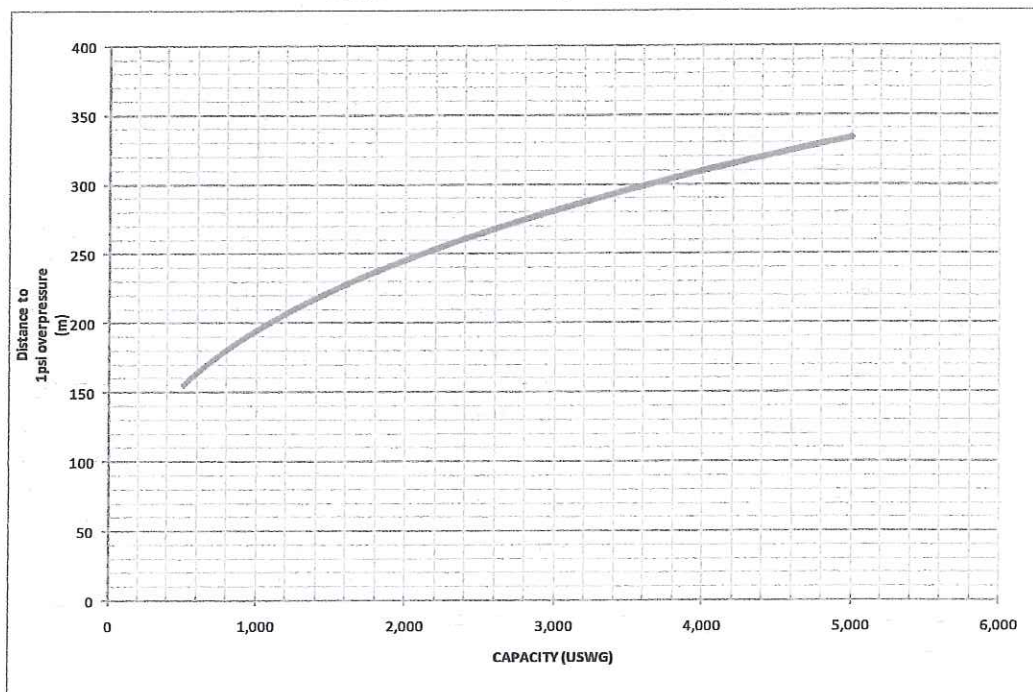
Table 1: Distance Table

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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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: Crane Supply Address: 615 Dixon Road City: Toronto Province Ontario Postal Code M9W 1H9			X		96.2 m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: Perkins Family Restaurant Address: 600 Dixon Road City: Toronto Province Ontario Postal Code M9W 1J1				X	119.5 m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: The Toronto Airport Hotel Address: 600 Dixon Road City: Toronto Province Ontario Postal Code M9W 1J1			X		145 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				_____ m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m

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

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) J. Ross Keys	Official Title Consultant
Signature 	Telephone No. 416-526-1405
	Date (dd-mm-yyyy) 31-08-2011



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

WORKSHEET

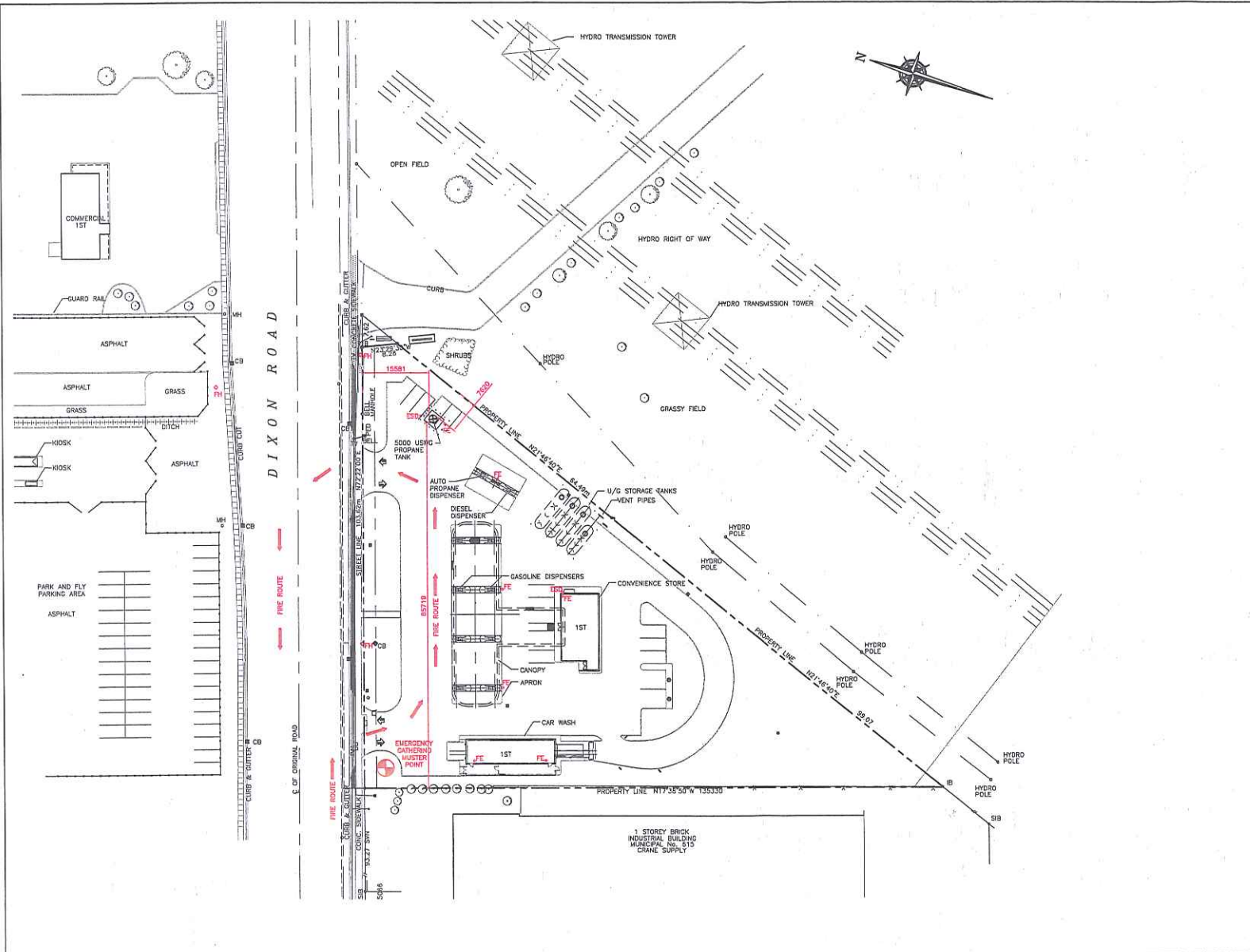
Portable Storage Additional Information Worksheet

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		
# 20	5.8	24	139.2 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			139.2 USWG

Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
Total Tank Capacity		

Total Cylinder Capacity	139.2 USWG
Total Tank Capacity	5000 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	5139.2 USWG



ZONING INFORMATION:

LOT AREA: 7485.7sq.m.
 BUILDING AREA: 325.3sq.m.
 LOT COVERAGE OF BUILDING: 4.3%

NOTES:

1. APPROVAL IS SUBJECT TO T.S.S.A. APPROVAL.
2. FACILITY USED FOR RETAIL & AUTO PROPANE REFILLING ONLY.
3. EXISTING USE OF PROPERTY IS A PETROLEUM SERVICE STATION & CONVENIENCE STORE.
4. NO HAZARDOUS MATERIALS STORED ON SITE.

LEGEND:

- FE ○ FIRE EXTINGUISHER
- FH ◇ FIRE HYDRANT
- ESD ■ EMERGENCY SHUT-DOWN
- ⊕ MUSTER POINT

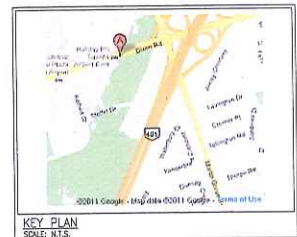
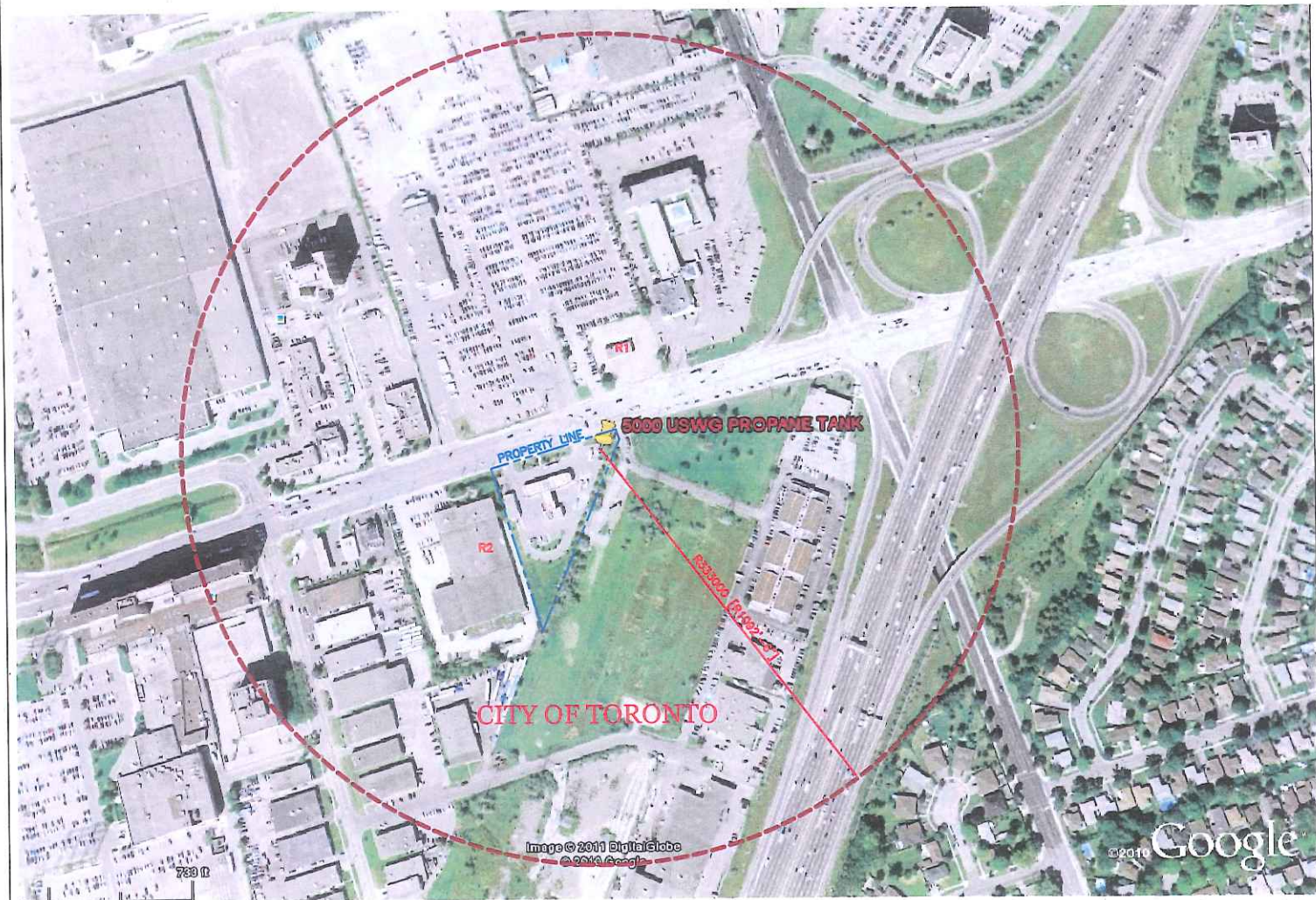
0	JUL 12, '11	ISSUED FOR RSHR APPROVAL	D.F.
No.	Date	Description	By
REVISIONS			

PETRO CANADA

ALTENG Inc.
 Alternative Energy Consulting

126 Horn Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)754-1644 Fax: (905)754-5906

Project: PETRO-CANADA SERVICE STATION 555 DIXON ROAD ETOBICOKE, ON M9W 1H7	Drawn By: D.F. Checked By: J.R.K. Date: JUL 12, '11 Drawing Scale: 1:400
Drawing Title: EMERGENCY FIRE PLAN	ACAD INFORMATION Drawing File: 110200-P-105 Drawing Size: D Plotting Scale: 1=1
Drawing Number: P-105	File Number: 110200



NOTES:
 CONSEQUENCE DISTANCE TO AN OVERPRESSURE LEVEL OF 1 psi
 BASED ON THE EQUIVALENCY METHOD, AS PER U.S.C.A. GUIDELINES
 FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT
 PLAN

$$D = 17 \times \left(0.1 \times \psi \right) \times \left(\frac{MCL}{K_{COR}} \right)^{1/2} = 333m$$

THIS FACILITY FALLS UNDER THE LEVEL 1 RSPM REQUIREMENTS FOR
 STORAGE:

PROPERTY LINE SETBACKS	
NORTH	9.5m
EAST	4.9m
WEST	90.0m

PUBLIC RECEPTOR	DESCRIPTION	DISTANCE FROM TANK	POPULATION DENSITY
R-1	NOT IN USE	73.3m	URBAN
R-2	INDUSTRIAL	66.2m	URBAN

DPS COORDINATES	
LATITUDE	LONGITUDE
43°41'26.76"N	79°34'24.87"W

PLANNING ADVISORY INFORMATION:

CITY OF TORONTO
 ETOBICOKE CHNG CENTRE
 355 THE WEST MALL
 TORONTO, ONTARIO M9C 2Y2
 ATTN: MR. TOM KEEFE
 PH: 416-394-6211

D	FER. 02, '11	ISSUED FOR RSPM	D.F.
No.	Date	Description	By



ALTENG Inc.
 Alternative Energy Consulting
 126 Helm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1644 Fax: (905)764-5986

Project:	PETRO-CANADA SERVICE STATION 585 DIXON ROAD ETOBICOKE, ON M9W 1M7	Drawn By:	D.F.
Drawing Title:	BLAST RADIUS PLAN LAYOUT	Checked By:	J.R.L.C.
Drawing Number:	P-200	Date:	JAN. 31, '11
File Number:	110200	Drawing Scale:	AS SHOWN
		ACAD INFORMATION	
		Drawing File:	110200-P-200
		Drawing Size:	D
		Plotting Scale:	1=1