



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-weight: bold; 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>Licence Number <input style="width: 80%;" type="text" value="0029250002-C"/></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; font-size: small;">For Office Use Only</p> <div style="border: 1px solid black; height: 80px; width: 100%; background-color: black;"></div>
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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.

A	Company Name T.G. Hammond Limited O/A Gra-Ham Energy Ltd.	Ontario Corporation No., if applicable
	Operator Name (if different from above)	
	Telephone No. 519-284-3420	Fax No. 519-284-4161
	E-mail info@goco.net	
B	Street No. / Street Name / 911 Number / Address, if applicable 88 / Queen Street	
	Town / City or Township / County St Marys (Perth South)	Province / Postal Code Ontario / N4X 1A9
C	Mailing address if different from above.	
	Street No. / Street Name / 911 Number / Address, if applicable PO Box 130	
	Town / City or Township / County St. Marys	Province / Postal Code Ontario / N4X 1A9

Information on Container Refill Centre or Filling Plant		
Location of facility.		
D	Street No. / Street Name / 911 Number / Address, if applicable 2911 / Road 119 (Highway #7)	Nearest Major Intersection
	Town / City or Township / County St Marys (Perth South)	Province / Postal Code Ontario / N4X 1A9

Name of Licence Holder T.G. Hammond Limited O/A Gra-Ham Energy Ltd.	
Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT) Charlie Hammond	ROT type Trainer - AI TS127 (exp 12/31/2013)
Municipality (or municipalities if the facility or its hazard distance touches multiple borders) Perth South	Gas Tech 1 (5/4/2013)
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 Name of Licence Holder T.G. Hammond Limited O/A Gra-Ham Energy Ltd.	Signature 	Date (dd-mm-yyyy) 17-01-2012
Name of Senior Management person as defined in the Regulation holding the Record of Training Charlie Hammond		17-01-2012



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SECTION A: GENERAL INFORMATION (cont'd)

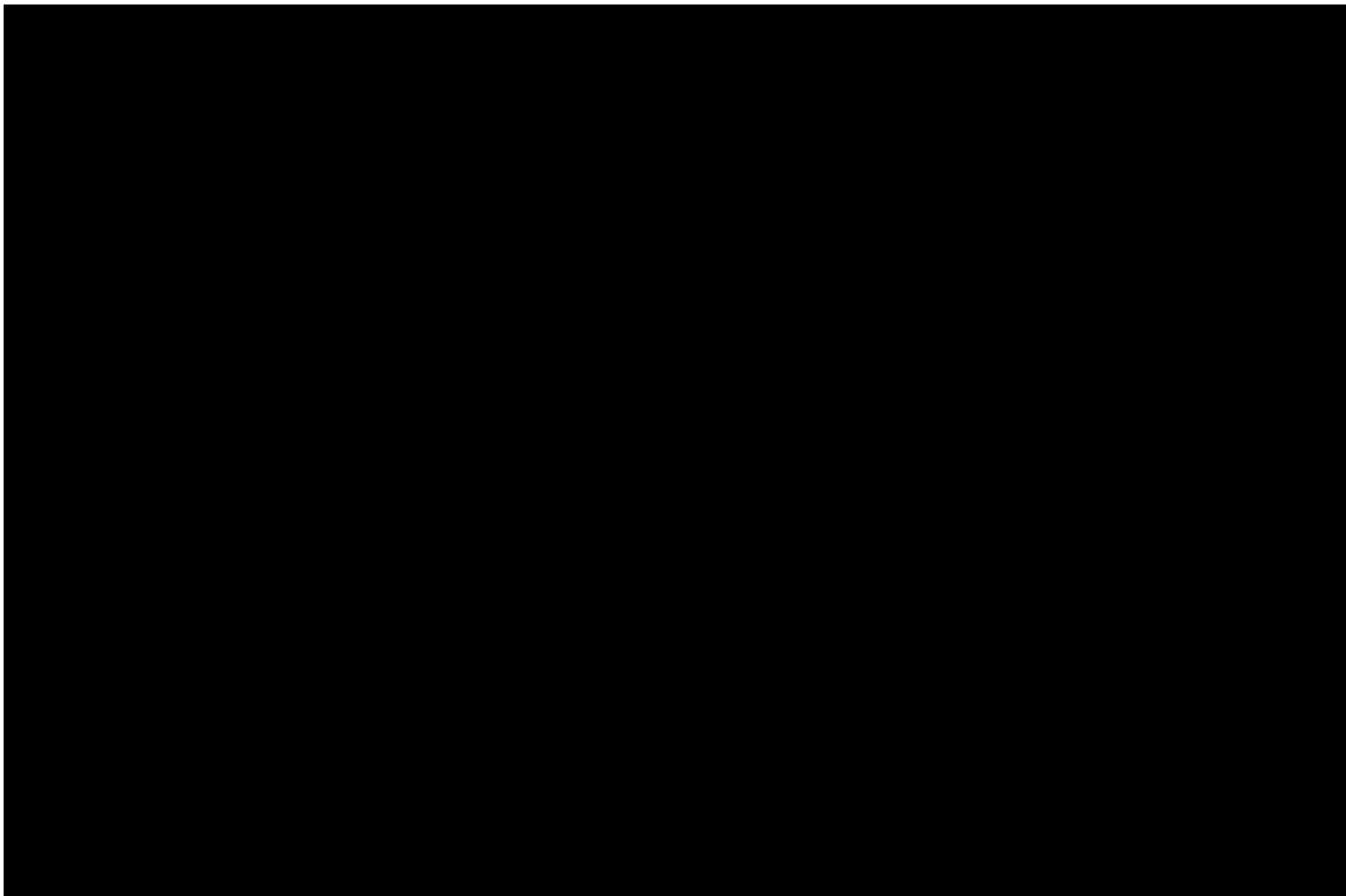
Indicate the year the facility was established. 1982	Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. n/a
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Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank1:	250	20J81-172
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: 2,000uswg Portable: 104.4 uswg Mobile: n/a



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Name of person completing this form (please print) Charlie Hammond	Official Title Vice-President
Signature 	Telephone No. 519-284-3420
	Date (dd-mm-yyyy) 17-01-2012



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) Dowler-Karn Limited		For Office Use - Party No. [REDACTED]	
Street No. 1714	Street Name / 911 Number / Address, if applicable Perth Line 163 RR#1		
Town / City or Township / Country St. Marys		Province Ontario	Postal Code N4X 1C4
Telephone No. 519-229-6300	Fax No. 519-229-6308	Contact Name David Karn (VP) , Neil Primeau - Branch Manager	
E-mail neilprimeau@dowlerkarn.com			

Name of Propane Transporter. If same as above, please check box. <input checked="" type="checkbox"/>		For Office Use - Party No. [REDACTED]	
Street No.	Street Name / 911 Number / Address, if applicable		
Town / City or Township / Country		Province	Postal Code
Telephone No.	Fax No.	Contact Name	
E-mail			

Off-site Cylinder and/or Mobile Storage		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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Signature 		Telephone No. 519-284-3420	Date (dd-mm-yyyy) 17-01-2012



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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.

<p>Description of the maximum volume, types and storage location of other hazardous materials on site, if any.</p> <p>Fuels >Underground tanks - Diesel fuel 45500L clear diesel, 45500L reg. unleaded, 25000L premium gas, 10000L coloured diesel</p> <p>5x 454C steel double walled above ground tanks (racing fuel)</p> <p>Medium sized bulk plant located onsite (controlled entry) See attachment for details. (licensed for 757,350 litres)</p> <p>Refer to site map for location.</p>
<p>Description of fire and emergency equipment indicated on facility site map.</p> <p>Fire Extinguishers at dispenser, fuel pumps and within building.</p> <p>Emergency propane shutoff - at main counter in building. Fuels shutdowns at each lamp post near pumps and in building.</p> <p>System shutoff in building at service counter. Shuts down all fuels and propane systems.</p> <p>Video surveillance of property</p>
<p>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.</p> <p>Emergency propane shutoff switch installed per B-149 of Ontario gas code - allows for hydro shutoff at dispenser, closing a valve and stopping the flow of propane from the tank.</p> <p>Fusible links on tank as described under b-149 of Ontario gas code - heat sensitive closure valve is activated with the main valve spring closes because the link breaks under heat, restricting the flow of gas/ liquids.</p>
<p>Maintenance and testing schedule for fire protection controls and devices.</p> <p>Annual inspection of tank and emergency shut-off system as per requirements under section b-149 of Ont. gas code. Copy left on site.</p> <p>Annual inspections of fire extinguishers by external company.</p> <p>Weekly visual inspection by operator opening facility / dispenser prior to use (new in 2012).</p>

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	Date (dd-mm-yyyy) 17-01-2012



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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	
Name Charlie Hammond	For Office Use - Party No.	Name Charlie Hammond	For Office Use - Party No.
Official Title Vice-President		Official Title Vice-President	
Telephone No. 519-521-6270	Fax No. 519-284-4161	Cell No. 519-521-6270	Fax No. 519-284-4161
E-mail charliehammond@goco.net		E-mail charliehammond@goco.net	
Role and responsibilities in emergency To execute the emergency response plan and to implement its components (alert authorities, confirm evacuation of people onsite).		Role and responsibilities in emergency To execute the emergency response plan and to implement its components (alert authorities, confirm evacuation of people onsite).	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name Rick Hammond	For Office Use - Party No.	Name Charlie Hammond	For Office Use - Party No.
Official Title Vice-President		Official Title Vice-President	
Telephone No. 519-860-3420	Fax No. 519-571-8279	Telephone No. 519-521-6270	Fax No. 519-284-4161
E-mail rickhammond@goco.net		E-mail charliehammond@goco.net	
Role and responsibilities in emergency To execute the emergency response plan and to implement its components (alert authorities, confirm evacuation of people onsite).		Role and responsibilities in emergency Ensure that appropriate emergency response resources are deployed and executed if required.	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Dennis Brownlee	For Office Use - Party No.	Name David Karn / Neil Primeau	For Office Use - Party No.
Official Title Fire Chief		Official Title Vice President / St Marys Manager	
Telephone No. 519-284-1752	Fax No. 519-284-1751	Telephone No. 519-631-3810 / 519-336-8600	Fax No. 519-631-4755
E-mail dbrownlee@town.stmarys.on.ca		E-mail davekarn@dowlerkarn.com / neilprimeau@dowlerkarn.com	
Role and responsibilities in emergency Coordination of municipal fire services and resources during an emergency.		Role and responsibilities in emergency ERAP Coordinator - OPA	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name Bob Harris	For Office Use - Party No.	Name Lizett Scott	For Office Use - Party No.
Official Title Deputy Chief		Official Title Clerk	
Telephone No. 519-284-1752	Fax No. 519-284-1751	Telephone No. 519-271-0619 (ext 224)	Fax No. 519-271-0647
E-mail bharris@town.stmarys.on.ca		E-mail lscott@perthsouth.ca	
Role and responsibilities in emergency Coordination of municipal fire services and resources during an emergency.		Municipality Perth South	

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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 is built and maintained to code, meeting all applicable regulations.

[Large empty area with horizontal lines for describing additional safety measures.]

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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) January 2012	Print Name of Training Provider: Inhouse
	Print Name of Instructor: Charlie Hammond
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) January 2012	Print Name of Training Provider: Inhouse
	Print Name of Instructor: Charlie Hammond
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) As required based on expiry date	Print Name of Training Provider: Dowler-Karn Limited (CPA certified trainer) or Gra-Ham Energy
	Print Name of Instructor: Neil Primeau / Charlie Hammond
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) September 2012	Print Name of Training Provider: Inhouse
	Print Name of Instructor: Charlie Hammond
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) September 2012	Print Name of Training Provider: Inhouse
	Print Name of Instructor: Charlie Hammond
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) As required based on expiry date	Print Name of Training Provider: Dowler-Karn Limited (CPA certified trainer) / inhouse option
	Print Name of Instructor: Neil Primeau / Charlie Hammond (certified trainer)
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).
Emergency response coordinator is point person for executing the ERP. In the event of a confirmed emergency, verbal warnings and evacuation will occur on-site for all customers and employees to assemble at the designated evacuation site per the ERP. All other communications will be through the emergency response personnel once on-site. In the absence of the EC, the backup or a designate will assume this role.

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).
In the event that a warning has been issued, an evacuation will be undertaken and the emergency coordinator will attempt to activate emergency shutoff and hydro shutoffs if feasible and immediately contact 911 with pertinent information specific to the location and details of the emergency. All is noted in the ERP.

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).

In the event of a suspected leak, spill, fire or explosion, the emergency coordinator (or backup) is to call 911 once employees and customers have been ushered to safety and the evacuation point. All steps and details are listed in the ERP.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
All equipment relevant to propane is accessible outside the building, including the emergency shutoff. The main hydro and fuel system shutoff is located inside the building (see site plan). Should access be required and personnel are not on site, then emergency service personnel will have to determine the best course of action to obtain entry.

Describe how the licence holder will ensure continual flow of updated information to authorities.
Via phone or cell phone until such time as they arrive. Upon arrival, the EC will liaise with the Emergency services personnel to provide update. At that stage control will be given to the Fire Service to manage the emergency. In a proactive manner, GraHam Energy will provide site and contact information along with a copy of their ERP to the fire services when the RSMP is reviewed.

How long will it take the facility liaison person to respond to the site.
The EC (Charlie Hammond) can be present within 10 minutes The 24 hour contact person (Rick Hammond) is approximately 5 minutes away.

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Signature 	Telephone No. 519-284-3420	Date (dd-mm-yyyy) 17-01-2012



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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 type="checkbox"/> | <input checked="" type="checkbox"/> (WEEKLY) |
| 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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only) | <u>none available</u> | |
| 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) | <u>none available</u> | |

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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:

See attached letter dated January 27, 2012.

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 Phil Mellor, Assistant Chief Fire Prevention Officer		27-01-2012

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Name of person completing this form (please print) Charlie Hammond	Official Title Vice-President	
Signature	Telephone No. 519-284-3420	Date (dd-mm-yyyy) 21-12-2011



FIRE CHIEF - DENNIS BROWNLEE

FIRE DEPARTMENT HEADQUARTERS 172 JAMES STREET SOUTH, ST. MARYS, ONTARIO N4X 1A6 TEL: (519) 284-1752

January 25, 2012

Mr. Charlie Hammond
Vice President
T.G. Hammond Ltd O/A Gra-Ham Energy Ltd.
88 Queen St. West,
St. Marys, Ontario.
N4X 1A9

Mr. Hammond,
I have reviewed the RSMP for your site at municipal address #2911 Road 119, Perth South and have the following comments.

PROPANE DISPENSER INFORMATION

- Propane Supplier/Transporter
- Delete St. Thomas phone number and add Rannoch site number

RSMP Page 4 of 15

Maintenance and Testing Schedule for Fire Protection Controls and Devices

- Item #4
- Is "Smoking Prohibited" on the property?
- If so, are signs posted indicating where smoking is not permitted?
- Portable extinguishers shall be kept operable and fully charged

RSMP Page 5 of 15

#4 Local Fire Services

- Delete bharris email address as this is non-existent

#7 Propane Supplier Key Contact Person

- Add phone number and fax number for Neil Primeau - *Ran*

RSMP Page 6 of 15

Additional safety Measures

- Are there no additional safety features beyond minimum code compliance?

RSMP Page 7 of 15

Emergency Response Training

- Did the training address situations involving a transfer hose leak, propane piping leak or a fire under the propane tank?
- Did the training address procedures for all filling, storage and transfers?
- Did the training address Roles and Responsibilities including what actions are taken when a particular emergency situation is identified?

Emergency management Procedures

- Did the training address procedures for emergency notification of staff?
- Did the training address the process for initiating the Warning and Actions and Communications in Section B5?

Certificate Holder Training

- Are certificate holders or persons with a ROT provided with site specific training and is a record kept of the persons who were trained, the dates they were trained and the name of the trainer on each date?

RSMP Page 8 of 15

What scheduled training is going to be provided for the coming year for persons with ROT's?

RSMP Page 9 of 15

Warnings and Actions

- How will residents within the Hazard Distance Chart be notified of an incident?

RSMP Page 10 of 15

Building and Site Security and Procedures

- #4
- Daily inspection of propane dispensing equipment and hoses is an important step in maintaining public safety, why is the answer checked as NO?

RSMP Page 13 of 15

Hazard Distance Chart

- The distance to 1psi overpressure is 246 metres
- Should the evacuation point not be outside that 246 metre measurement?

EMERGENCY RESPONSE PLAN

Other Steps/Communications

- Add the contact number for Neil Primeau

TRAINING

Provide a “Sign Off” for basic employee training including items such as overfilled cylinder procedures, daily and weekly inspection forms.

PROCEDURES FOR OVERFILLED CYLINDERS

Page 11 – Dowler Karn St. Marys Branch – insert the Rannoch number not St. Thomas .

These are items that should be addressed and if clarification is required I can be reached at 519-284-1752.

Sincerely,



Dennis Brownlee
Fire Chief
Town of St. Marys



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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) December 2011	Capacity of single largest propane storage vessel (USWG) 2,000uswg
Tank setback coordinates. Indicate placement on the map.	
Front: <u>24.7m</u>	Right side property line: <u>42.75m</u>
Rear: <u>1012.7m</u>	Left side property line: <u>65.14m</u>
GPS coordinates of single largest vessel: <u>43deg17'06.25"N, 81deg03'17.17"W</u>	

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) Charlie Hammond	Official Title Vice-President
Signature 	Telephone No. 519-284-3420
	Date (dd-mm-yyyy) 17-01-2012



Technical Standards and Safety Authority
www.tssa.org

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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

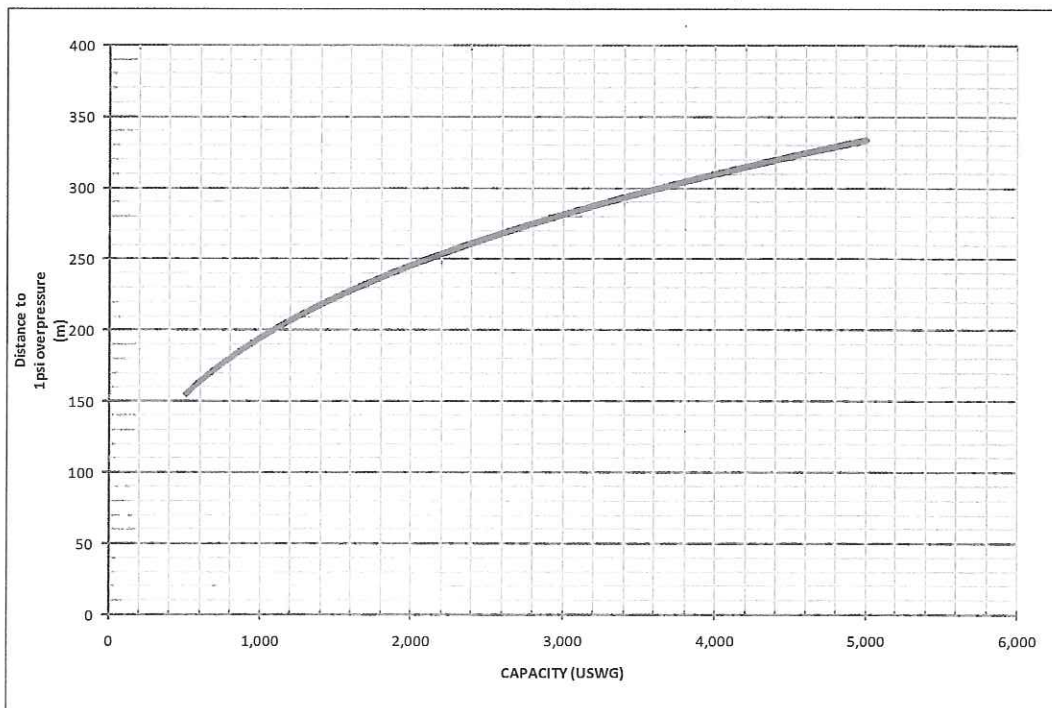
Table 1: Distance Table

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: _____ Address: _____ City: _____ Province Ontario Postal Code _____	x				_____ m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. Name: _____ Address: _____ City: _____			x		87.5 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: _____ Address: _____ City: _____ Province Ontario Postal Code _____	x				_____ m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	x				_____ 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".

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SECTION C: SUBMISSIONS (cont'd)

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

Portable Storage Additional Information Sheet

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	18	104.4uswg
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			

Tanks Stored On-site Not Connected for Use

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

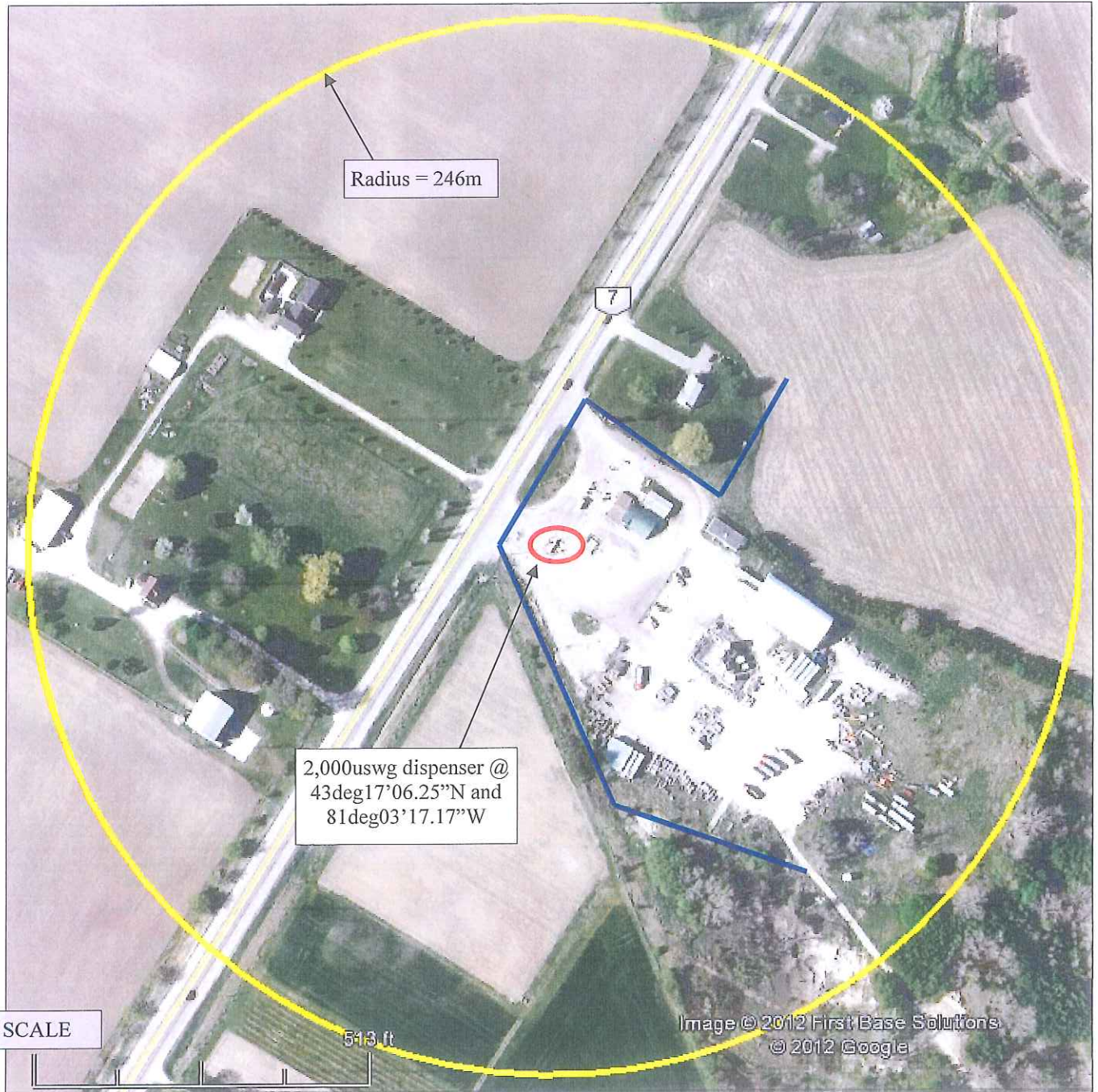
Total Cylinder Capacity	104.4uswg
Total Tank Capacity	2,000 uswg (fixed)
Total Portable Capacity	0

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Signature 	Telephone No. 519-284-3420
	Date (dd-mm-yyyy) 17-01-2012

(T.G. Hammond Limited O/A Gra-Ham Energy Ltd.
2911 Road 119 (Hwy #7)
St Marys, Ontario N4X 1A9

Level 1 RSMP
Map of Surrounding Area



SCALE

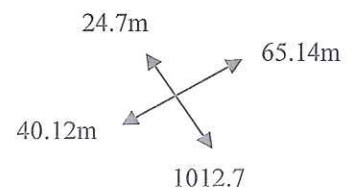
513 ft

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Perth South Contact

Lizett Scott—Clerk
519-271-0619 ext 224
Email: lscott@perthsouth.ca

**Property Line Setbacks
(Blue lines)**



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