

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION AUTHORIZING THE DIRECTOR OF GENERAL SERVICES TO ENTER INTO A CONTRACT WITH BLOSSMAN GAS, INC. TO PROVIDE AN ON-SITE PROPANE REFUELING STATION FOR AUTOGAS AND SMALL EQUIPMENT DISPENSING AND TO PROVIDE BULK PROPANE FUEL IN CONNECTION WITH THE OPERATION OF THE STATION, FOR AN ESTIMATED ANNUAL AMOUNT NOT TO EXCEED TWENTY THOUSAND DOLLARS (\$20,000.00).

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BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF CHATTANOOGA, TENNESSEE, That the Director of General Services be and is hereby authorized to enter into a contract with Blossman Gas, Inc. to provide an on-site propane refueling station for autogas and small equipment dispensing and to provide bulk propane fuel in connection with the operation of the station, for an estimated annual amount not to exceed \$20,000.00.

ADOPTED: \_\_\_\_\_, 2015

/mem

# City of Chattanooga



## Resolution/Ordinance Request Form

Date Prepared: 1/7/2015

Department: General Services

Brief Description of Purpose for Resolution/Ordinance: Res./Ord. # Council District # 8

RESOLUTION APPROVING THE DIRECTOR OF GENERAL SERVICES TO ENTER INTO A CONTRACT WITH BLOSSMAN GAS, INC. TO PROVIDE AN ON-SITE PROPANE REFUELING STATION FOR AUTOGAS AND SMALL EQUIPMENT DISPENSING AND TO PROVIDE BULK PROPANE FUEL IN CONNECTION WITH THE OPERATION OF THE STATION.

Name of Vendor/Contractor/Grant, etc.	<u>Blossman Gas, Inc.</u>	New Contract/Project? (Yes or No)	<u>YES</u>
Total project cost \$	<u>NA</u>	Funds Budgeted? (YES or NO)	<u>YES</u>
Total City of Chattanooga Portion \$	<u>NA</u>	Provide Fund	<u>6501</u>
City Amount Funded \$	<u>NA</u>	Provide Cost Center	<u>D20101</u>
New City Funding Required \$	<u>NA</u>	Proposed Funding Source if not budgeted	
City's Match Percentage %	<u>NA</u>	Grant Period (if applicable)	

List all other funding sources and amount for each contributor.

Amount(s) (\$)	Grantor(s)

Agency Grant Number: \_\_\_\_\_

CFDA Number if known: \_\_\_\_\_

Other comments: (Include contingency amount, contractor, and other information useful in preparing resolution)

Vendor will provide bulk propane (LP) at a \$0.34 markup over the market drop-in rate to cover the expense of the station.

Reviewed by: FINANCE OFFICE

Approved by: \_\_\_\_\_ DESIGNATED OFFICIAL/ADMINISTRATOR

Please submit completed form to @budget, City Attorney and City Finance Officer

Revised: 10/17/13 GS-RRF1



**Blossman** Propane Gas & Appliance

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September 25, 2014

City of Chattanooga  
Purchasing Department  
101 East 11<sup>th</sup> Street  
City Hall, Suite G13  
Chattanooga, TN 37402

Dear Sirs:

We at BLOSSMAN GAS, INC., would like to thank you for giving us the opportunity to bid your propane needs.

We will furnish you with all necessary equipment, at no charge, that is explained on our "Propane Autogas Dispenser Recommended Specifications" sheet for as long as we are providing your propane needs. This would not include doing any modifications to the proposed site that was discussed at the meeting on September 18, 2014. We will also provide any safety training to any or all employees that will be filling any vehicles from this equipment.

The cost of propane will be based on the daily posted price from BPN Milner. As an example, this is today's cost:

BPN Milner cost	\$ 1.19207
Freight	.09000
Markup	.25000
Total Cost Today	1.53207

This total does not include Federal and State Taxes.

Also, if you wish, we will furnish all necessary equipment at a separate location for the filling of your lawn mowers and forklifts. This will also be at no charge, provided the location meets all the necessary safety and electrical requirements. Having a different location will also help keep the taxable and non-taxable fuel separated, plus there may be some safety issues arise from filling the small tanks from the auto dispenser.

Thank you,  
  
BLOSSMAN GAS, INC.

Stanley Crawford, Branch Manager  
2798 APD 40  
Cleveland, TN 37323  
scrawford@blossmangas.com  
423-479-7569 / 1-800-453-3122 / fax 423-479-7697

# June 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 BPN POSTING 1.12888 TOTAL COST 1.46888	3 BPN POSTING 1.12888 TOTAL COST 1.46888	4 BPN POSTING 1.12888 TOTAL COST 1.46888	5 BPN POSTING 1.09305 TOTAL COST 1.43365	6 BPN POSTING 1.09305 TOTAL COST 1.43365	7
8	9 BPN POSTING 1.09305 TOTAL COST 1.43365	10 BPN POSTING 1.09305 TOTAL COST 1.43365	11 BPN POSTING 1.07707 TOTAL COST 1.41707	12 BPN POSTING 1.07707 TOTAL COST 1.41707	13 BPN POSTING 1.07707 TOTAL COST 1.41707	14
15	16 BPN POSTING 1.07707 TOTAL COST 1.41707	17 BPN POSTING 1.07707 TOTAL COST 1.41707	18 BPN POSTING 1.07707 TOTAL COST 1.41707	19 BPN POSTING 1.12330 TOTAL COST 1.46330	20 BPN POSTING 1.12330 TOTAL COST 1.46330	21
22	23 BPN POSTING 1.12330 TOTAL COST 1.46330	24 BPN POSTING 1.12330 TOTAL COST 1.46330	25 BPN POSTING 1.12330 TOTAL COST 1.46330	26 BPN POSTING 1.14123 TOTAL COST 1.48123	27 BPN POSTING 1.14123 TOTAL COST 1.48123	28
29	30 BPN POSTING 1.14123 TOTAL COST 1.48123					

\*\*\*\* THIS TOTAL COST DOES NOT INCLUDE FEDERAL AND STATE TAXES \*\*\*\*

# July 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 BPN POSTING 1.14123 TOTAL COST 1.48123	2 BPN POSTING 1.12910 TOTAL COST 1.46910	3 BPN POSTING 1.12910 TOTAL COST 1.46910	4 BPN POSTING TOTAL COST	5
6	7 BPN POSTING 1.12910 TOTAL COST 1.46910	8 BPN POSTING 1.12910 TOTAL COST 1.46910	9 BPN POSTING 1.12910 TOTAL COST 1.46910	10 BPN POSTING 1.12910 TOTAL COST 1.46910	11 BPN POSTING 1.10410 TOTAL COST 1.44410	12
13	14 BPN POSTING 1.10410 TOTAL COST 1.44410	15 BPN POSTING 1.10410 TOTAL COST 1.44410	16 BPN POSTING 1.10410 TOTAL COST 1.44410	17 BPN POSTING 1.11165 TOTAL COST 1.45165	18 BPN POSTING 1.11165 TOTAL COST 1.45165	19
20	21 BPN POSTING 1.11165 TOTAL COST 1.45165	22 BPN POSTING 1.11165 TOTAL COST 1.45165	23 BPN POSTING 1.11165 TOTAL COST 1.45165	24 BPN POSTING 1.12302 TOTAL COST 1.46302	25 BPN POSTING 1.12302 TOTAL COST 1.46302	26
27	28 BPN POSTING 1.12302 TOTAL COST 1.46302	29 BPN POSTING 1.12302 TOTAL COST 1.46302	30 BPN POSTING 1.12302 TOTAL COST 1.46302	31 BPN POSTING 1.12302 TOTAL COST 1.46302		****THIS TOTAL COST DOES NOT INCLUDE FEDERAL AND STATE TAXES ****

## Propane Autogas Dispenser Recommended Specifications

### Overview and purpose:

This document provides a minimum baseline specification, as recommended by the Propane Education and Research Council (PERC), to ensure positive end-user experiences with the installation and operation of propane autogas dispensing equipment. Following the recommended guidelines will ensure that new propane autogas dispensing equipment installed:

- Meets all necessary state, federal and local certification requirements.
- Delivers fuel in a similar-to-gasoline end-user experience.
- Will be the correct dispenser for the type of vehicle that will be filled.
- Provides propane autogas powered vehicle operators a safe, reliable refueling option.

### System performance requirements:

- Dispensing rate minimum of 8 gallons per minute (GPM).
- Pump package (motor, pump, bypass, piping, system sizing and electrical) must be able to provide adequate differential pressure based on vehicle type, geographic location and climate conditions.
- Location of dispensing station, in relation to the pump package, shall be considered.
- Vehicle fueling area (ground where vehicle parked) should be reasonably level to allow for complete fuel fills.

### Equipment requirements:

#### Dispenser cabinet:

- Shall be constructed of nonflammable, noncombustible materials; including but not limited to powder coat steel, stainless steel, aluminum or equivalent materials.
- Shall meet all federal, state and local codes and standards applicable at the installation location.
- Shall be constructed with lockable access panels to prevent tampering.
- Shall provide separation of the base classified area from the non-classified area (above 48") by a permanent seal.

#### Dispenser metering:

- Shall have a digital display capable of providing gross or net volumes.
- Where required, temperature compensation shall be provided and meet all federal, state and local requirements and codes; dispenser meter shall be provided with secondary temperature thermometer well for testing and proving the dispenser.
- System shall have a metering system with a minimum capacity of 2.2 GPM and a maximum capacity of 18 GPM.
- If you are using an electronic dispensing system, it shall be equipped with a pulse transmitter providing a minimum of 100 pulses per gallon (PPG) for retail sales and/or custody transfer.
- Mechanical temperature compensation without pulse output is acceptable.
- Meter accuracy shall be in accordance with federal and local requirements, with a minimum accuracy of  $\pm 0.6\%$  (.006) linearity and  $\pm 0.24\%$  (.0024) repeatability when dispenser is used for retail sales and/or custody transfer.
- Meter shall be proved prior to operation, to comply with state weights and measure standards applicable at the location of installation when dispenser is used for retail sales and/or custody transfer.

#### Dispenser display:

- Shall indicate gallons dispensed, with mechanical or electronic register.
  - If equipment is mechanical: indicate gallons dispensed and totalizer.
  - If equipment is electronic: indicate gallons dispensed, net or gross gallons, dispenser may include display with an alpha numeric keypad for ease of entering data.

#### Electrical requirements:

- It is recommended that all electrical installations are performed by a licensed, bonded electrician with motor control experience to ensure compliance with all federal, state and local codes and requirements at the location of installation.

**Comment [a1]:** Some of our models are capable of from a minimum of 1 GPM to 40GPM accurately

**Comment [MK2]:** Need to review and determine min/max numbers. Is this consistent with 8 GPM?

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- Dispenser and all internal electrical components shall be wired in full compliance with the manufacturer's specifications. Electrical components contained within the dispenser cabinet, where required, shall be Class 1 Group D Division 1 or Division 2, and be provided with all required seal off devices.
- Service wiring must meet voltage and amperage requirements of the motor manufacturer. Distance must be considered when selecting wire size.
- **Piping, valves, and fittings:**
  - All piping within the dispenser cabinet shall be A53 Grade B or better, schedule 80 or approved equivalent materials.
  - All threaded fittings shall be forged steel, brass or other materials approved for liquid propane.
  - All threaded fittings and valves shall be minimum 400 PSIG water, oil or gas (WOG) rated.
  - Ball valves shall be full port for liquid service.
  - Internal valves, excess flow valves, and backflow check valves shall be installed in appropriate locations in accordance with code.
- **Hose assembly:**
  - UL and CGA propane delivery hose shall be continuously marked "LP-GAS 350 PSI WP, 1750, 1750 burst pressure", maximum 18' length per NFPA code.
  - Hose assembly shall have a UL 567 compliant hose breakaway device with a maximum disconnection force of 60 pounds.
  - Fueling nozzle shall be gas pump style 1 1/2" ACME with quick-acting shutoff, low emission release, and failsafe discharge feature (example: GG 20 low emission Gasguard or equivalent).
  - Compatible with the dispensing device locking mechanism.
- **Pump system and pump assembly:**
  - Dispenser provider shall evaluate the filling requirements and provide the appropriate pump to meet these requirements. Vendor shall provide as a minimum pump curves showing flow, differential pressure, and horsepower required to meet system needs.
  - For most vehicles, a minimum differential pressure of 125 PSIG is required.
  - Pump inlet strainer (minimum 80 mesh) or any restrictions shall be minimum of 10 pipe-diameters from the pump inlet. Pump manufacturer's installation instructions shall be followed.
  - Pump inlet and outlet shall have isolation full port ball valves.
- **In-line fuel filter:**
  - Filter should be capable of filtering particles measuring 5 microns or finer.
  - Filter should be placed after the propane autogas pump, to filter the stored fuel prior to entering the vehicle.
- **Tank assembly:**
  - Tank selected must be suited for the application intended.
    - Container provided shall be equipped with a bottom liquid connection sufficient to supply the pump at the pump manufacturer's recommended volume.
    - The container shall be equipped with a suitable vapor connection for the pump bypass.
    - The container shall be equipped with suitable connection for the vapor eliminator from the meter to operate properly.
    - All other tank openings shall comply with code.
- **Installation foundation:**
  - Tank and dispensing unit shall either be mounted on a concrete or masonry foundation unless it is part of a complete storage and dispensing unit supported on a common base to prevent uneven settling and stress on piping.

<b>Comment [MK3]:</b> Revise per UL 567
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<b>Comment [e4]:</b> Rego disconnect force is approx 130lbs for a 3/4" device, 75lbs for a 1" device Marshall Excelsior breakaway device requires a 100 to 300 lbs for separation.
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**Optional information applicable to dispenser specifications:**

- Any compatible fuel management system may be used. Fuel management systems may include, but not limited to the vehicle fuel usage, vehicle number, driver ID, mileage, gallons delivered, or any other information suitable to the customer's needs.
- If the dispenser is used for retail sales it must be an approved device for its intended purpose.
- Optional equipment and upgrades may include, but are not limited to:
  - Dispenser display with an alpha numeric key pad for ease of entering data.
  - Painted surface of dispenser shall be protected from damage from the breakaway system with an aluminum 12" x 14" wear plate.
- Code resources:
  - UL 495: Power-Operated Dispensing Devices for LP-Gas
  - Handbook 44, National Conference on Weights and Measures
  - IFC
  - NFPA 58, 30A, 70 (NEC)
  - Applicable regional/state/local codes.

**ADDENDUM NO: 1**

**REQ NO: RFP# 101480**

**FINAL SUBMITTAL: September 25, 2014 4:00 PM EST**

**FINAL QUESTIONS: September 22, 2014 4:00 PM EST**

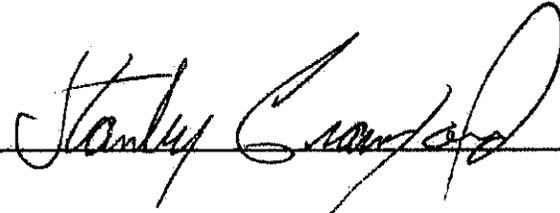
**Department: Fleet Management**

**Changes or Addition to the Bid:**

- 1. See Attached: Questions and Answers**

**Req No: RFP# 101480 Fleet Management – Onsite Propane Refueling Site**

**(Signed)**



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**PLEASE SIGN ONE (1) COPY OF ADDENDUM AND RETURN TO THE PURCHASING DEPARTMENT. RETAIN THE OTHER COPY FOR YOUR FILES.**

**CITY OF CHATTANOOGA  
PURCHASING DEPARTMENT  
Mark McKeel  
City Hall Suite G13  
CHATTANOOGA, TN 37402  
TELE: (423) 643-7236  
FAX: (423) 643-7244**