



Department of Public Works  
Operations Division  
Buildings and Fleet Services

**Jeffrey J. Mantes**  
Commissioner of Public Works

**James P. Purko**  
Director of Operations

**Venu J. Gupta**  
Buildings & Fleet Services Superintendent

December 19, 2005

Gentlemen:

Subject: Request for Qualification  
Revisions to Fuel Dispensing Systems  
Various Sites  
Milwaukee, Wisconsin

This letter is a request for qualification (RFQ) as referenced above. The project consists of providing information for updating the existing fuel dispensing system. The City of Milwaukee is currently using an E. J. Ward fuel management system installed in 1978. This system requires a separate vehicle/equipment card and a separate personal I.D. card. The E. J. Ward system handles a minimum of 3,500 pieces of equipment, 5,000 employees, and 21 different sites. A listing of sites, dispensers, and type of fuel dispensed is attached to this letter.

The proposed system shall be compatible with existing Department of Public Works (DPW) and Milwaukee Police Department (MPD) personal identification systems. The Department of Public Works will be changing the personal I. D. system to a HID Corporation type ProxCard II System. The Milwaukee Police Department personal I. D. system is an Allison 3 magnetic strip programmable type card system.

The new system should have back-up and by-pass that provides accountability capability, along with emergency power connections for both hardware and software. The new system shall be able to monitor type of fuel dispensed (diesel, unleaded, propane, other), number of gallons dispensed, time and date of transaction. The system shall also record vehicle or equipment identification; mileage and/or hour reading, other fluid levels (oil, transmission, hydraulics, anti-freeze), and must be capable of notifying/alerting operator that equipment or vehicle needs preventive maintenance performed or other message and requires the operator to acknowledge such a message.

The system shall be capable of transferring data between the vehicle and the database using wireless technology, in addition to other methods such as magnetic strip cards or keys. It must be possible to use more than one method of vehicle and/or employee identification per site per vehicle to allow total flexibility and a gradual conversion from older technology as funding allows.

Using information from the database, the system shall pre-authorize a fuel dispenser to allow only the correct fuel, verify the meter reading is correct using preset parameters for miles traveled since last reading, disallow too-frequent transactions, and shall limit the quantity dispensed based on the fuel tank capacity of the vehicle.

It is the intent of DPW to convert the existing fuel dispensing system to a new system as outlined above. The new system conversion will probably occur on a site by site basis over several years. Therefore, the new system must be compatible with the existing E.J. Ward system.

The system shall have a data exchange interface to the City's fleet management information system (Maximus Fleet Focus FA) to provide fueling and meter reading information into the fleet system.

The system shall be capable of interfacing with existing fuel storage tank monitoring systems (EMCO and Veeder root) and also provide an inventory management component.

The consultant shall submit sufficient information for the City to choose a system that meets its requirements as listed. The submission shall also include type of hardware and software system requirements and other features not listed that the proposed system provides. The provider shall provide information on types of fuel dispensers required, method, and frequency of daily updates to the City's fleet management system, and special attachment requirements for existing vehicles and equipment for the new system to operate. The provider shall list manufacturers of tank monitoring systems compatible with its system. A detailed installed component price sheet breakdown for the new system shall be submitted.

Submittal:

The respondent is responsible for any cost associated with the development of a response to this RFQ.

Firm's credentials and a minimum of five (5) years of experience related to projects of this type and scope shall be listed. Describe your prior projects of similar scope and identify key contact persons with telephone numbers. References listed will be contacted by City of Milwaukee personnel. Identify operational efficiencies for each project.

All completed responses to this RFI will become the property of the City and as such are subject to the State of Wisconsin Open Records Law upon completion of contract negotiations.

Three copies of proposals should be submitted to the Superintendent of Buildings and Fleet Services.

Proposals should be mailed to:

Mr. Venu J. Gupta, Superintendent  
Buildings and Fleet Services  
Room 602, Zeidler Municipal Building  
841 North Broadway  
Milwaukee, Wisconsin 53202

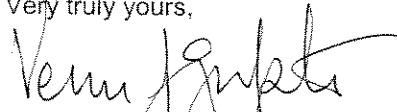
Consultant agrees to comply with all applicable requirements of the Americans with Disabilities Act of 1990, 41 U. S. C. Sec. 12101, et seq.

If providing the required professional services is of interest to your firm, please submit your proposal to me by 4:30 PM on Monday, January 31, 2006. Consultant is fully responsible for all cost involved in the preparation, submittal, and presentation of this response.

All responses will be reviewed for thoroughness, references checked, and a Request for Proposal or plans and specifications for bidding will be written based upon the information submitted and in the best interests of the City of Milwaukee.

Should you have any questions or require additional information, please feel free to contact Mr. Dennis Nelson of my staff at (414) 286-3295 or by e-mail at [dnelso@mpw.net](mailto:dnelso@mpw.net).

Very truly yours,

A handwritten signature in black ink, appearing to read "Venu J. Gupta". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

VENU J. GUPTA, Superintendent  
Buildings and Fleet Services

Attachment

DN/mbm

## Gasoline and Fuel Dispensers

Location	Manufacturer	Model	Hoses	Product	
Central Repair Garage	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	Gasboy		2	Unleaded	UST
	Gasboy		2	Unleaded	UST
	CFT		1	Propane	AST
Lincoln Avenue Garage	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	CFT		1	Propane	AST
Northwest Garage	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	Gasboy		1	Unleaded	UST
	Gasboy		1	Unleaded	UST
	Gasboy		1	Unleaded	UST
	Gasboy		1	Unleaded	UST
123 Building	Gasboy		1	Unleaded	UST
	Gasboy		1	Unleaded	UST
	Gasboy		1	Diesel	UST
Lincoln Water	Gasboy		1	Diesel	UST
Cameron Water	Gasboy		2	Diesel	UST
Industrial Road	Gasboy		2	Diesel	UST
	Gasboy		2	Diesel	UST
	Gasboy		2	Unleaded	UST
	Gasboy		2	Unleaded	UST
	CFT		1	Propane	AST
52nd & State	Gasboy		2	Diesel	UST
	Gasboy		2	Unleaded	UST
Old 3rd District Police	Gasboy		1	Unleaded	UST
1st District Police	Gasboy		2	Diesel	UST
	Gasboy		2	Unleaded	UST
2nd District Police	Gasboy		1	Unleaded	UST
3rd District Police	Gasboy		1	Unleaded	UST
4th District Police	Gasboy		2	Unleaded	UST
5th District Police	Gasboy		1	Unleaded	UST



Same letter sent to :

Fuelmaster/Syn-Tech Systems, Inc.  
100 Four Points Way  
Tallahassee, Florida 32305  
1-800-888-9136

MAXIMUS Asset Solution  
5001 West 80<sup>th</sup> Street, Suite 765  
Bloomington, Minnesota 55437  
Attention: Mr. Barry Johnson  
1-952-451-0435

OPW Fuel Management Systems  
6900 Santa Fe Drive  
Hodgkins, Illinois 60525  
1-708-485-4200

RAOAC Network International, Inc.  
100 First Street  
Hackensack, New Jersey 07601  
1-800-544-2852  
1-800-544-2852

Scully Signal Co.  
70 Industrial Way  
Willmington, Massachusetts 01887  
1-800-272-8559

Stanadyne Corp.  
92 Deerfield Road  
Windsor, Connecticut 06095  
1-800-842-2496

Trak Engineering  
2901 Cresent Drive  
Tallahassee, Florida 32301  
1-850-878-4585, Extension 325

Gilbarco/Veeder Root/Gasboy  
7300 West Friendly Avenue  
Greensboro, North Carolina 27420  
1-800-444-5579

EJ Ward  
3230 Fall Creek Highway, Suite 210  
Granbury, Texas 76049  
1-817-910-9761

cc: V. Gupta  
G. Kulwicki  
M. O'Donnell  
J. Tews  
F. Gunther  
S. Steffan (MPD)  
D. Fralick (MPD)  
J. Bocek (MPD)  
M. Schaefer  
B. Pawlak  
D. Nelson ✓

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## EASY INSTALLATION, LONG-LASTING AND SAFE PERFORMANCE

Fuel Point is not only easy to use, but also easy to install. Vehicle components are designed to be installed by the system owner. When a vehicle becomes obsolete, the components can simply be transferred to another vehicle. Field proven in over 80,000 vehicles around the world, Fuel Point's resourceful design allows for usage in virtually any setting because of its tough performance features:

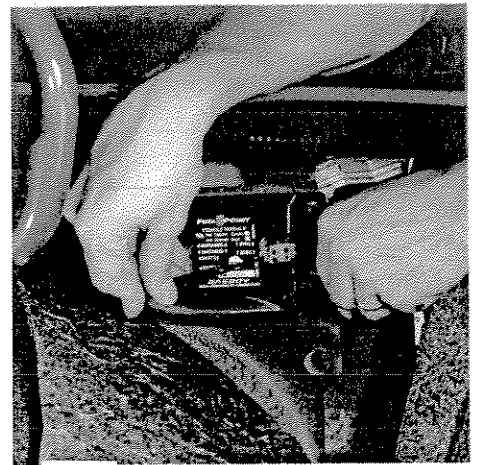
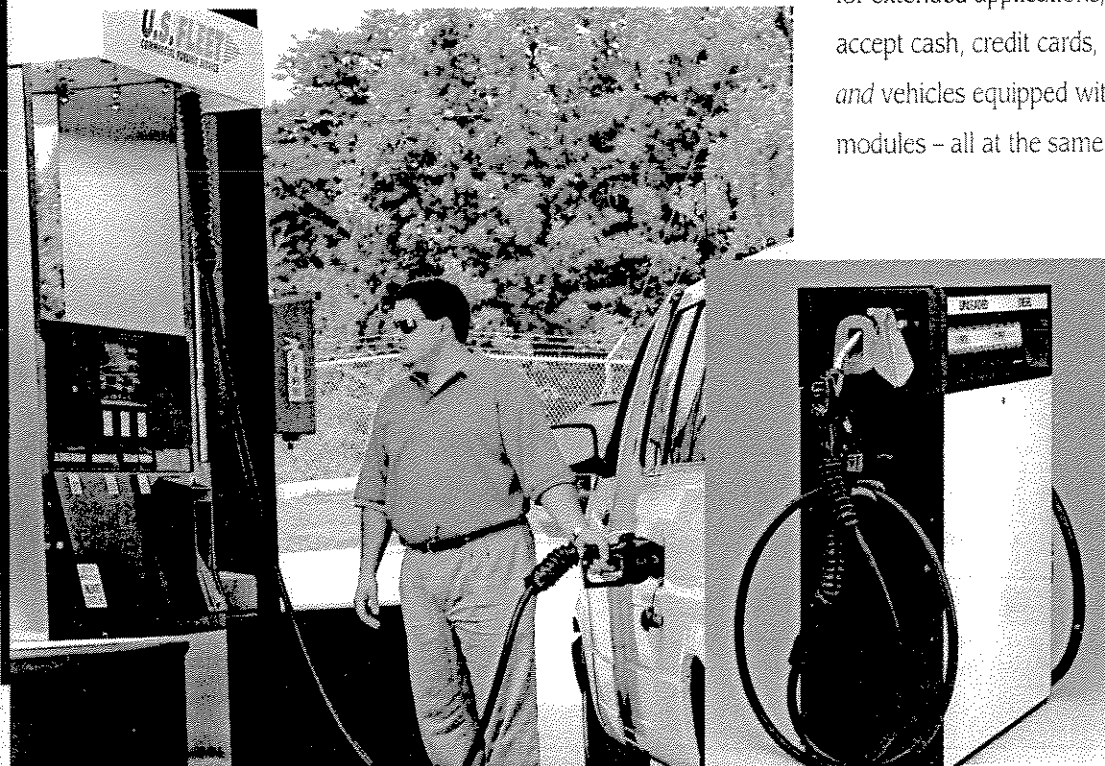
- UL tested and listed system and vehicle components ensure safety.
- Innovative, potted vehicle module construction absorbs vehicle vibration, allowing for even, heavy-duty off-road use.
- Breakaway safety connections protect hose antenna lines.
- Concealed nozzle and hose antennas discourage tampering.

Fuel Point offers the safety, convenience and control that managers demand. For less than the cost of pinstriping a vehicle, each car, truck or piece of heavy equipment can become an integral part of keeping fuel, operating and maintenance costs under control.

## IDEAL FOR RETAIL OR FLEET

Fuel Point is as equally at home at the retail station as it is in private fleet operations. Account information traditionally stored on magnetic stripe cards can be programmed onto the vehicle module, allowing the retailer to take advantage of existing networks. And for extended applications, retailers can accept cash, credit cards, debit cards and vehicles equipped with Fuel Point modules – all at the same site!

*Fuel Point is the ultimate convenience solution, adaptable for retail or fleet applications.*



*Quick and easy installation typically takes 45 minutes.*

*With concealed nozzle and antenna wires, Fuel Point appears to work like magic.*

**NO CARDS + NO KEYS = NO HASSLE**

Responding to customers' needs for easier, more accurate fuel management, Gasboy introduces Fuel Point, the hassle-free system that keeps misplaced cards, keys or data from interrupting fueling operations. With Fuel Point, drivers stop, fill up and get back on the road without complications - which means business stays moving in the fast lane.

**0% HUMAN ERROR,  
100% USER-FRIENDLY**

With all fueling data collected and stored automatically, the driver is removed from the data entry process, eliminating human error and providing fleet managers with the control and precision they require to keep management, maintenance and operating costs under control. On every transaction, the data is communicated, recorded and stored electronically, guaranteeing accuracy and security. And with Fuel Point, data security equals peace of mind:

- Only authorized vehicles receive fuel - No prohibited fuelings.
- The right fuel goes in the right vehicle - No costly repairs due to the incorrect fuel type.
- Odometer and hour readings are accurate - No erroneous data for preventative maintenance scheduling.

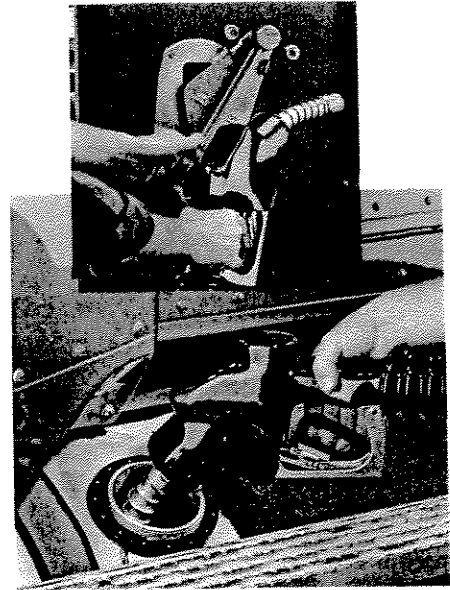
By communicating directly with the vehicle, Fuel Point offers the ultimate fuel management solution: ease of use while ensuring accurate and secure information.

**ACCESSIBLE INFORMATION,  
FLEXIBLE OPERATION**

For every fleet size, and every vehicle type, Fuel Point puts information and accurate data where it counts most: In the hands of fleet managers. This valuable information includes:

- Transaction Number
- Vehicle ID Numbers
- Date and Time
- Pump and Product
- Fuel Quantity
- Pricing
- Odometer and/or Hours
- Miles/Hours Per Gallon
- Miles Between Fill-Ups
- Error Messages

The Fuel Point option can be installed new or retrofitted to existing Gasboy Fuel Management Systems, which provide the dispenser control, recording and reporting functions. Any fuel capable of being monitored, including LPG and CNG, can be controlled. The system can be initiated immediately for an entire fleet, or phased in with existing card or key access for uninterrupted, accurate recording.



*User operation is as easy... simply turn the dispenser and fueling - no cards, no keys, no entries.*

*Vital information is transferred automatically from the vehicle, eliminating human error...*





# FUEL POINT VEHICLE COMPONENTS: AUTOMATIC VEHICLE DATA CAPTURE



Programming vehicle information is easy and hassle-free.

Single & dual input vehicle module models are available. Single input allows one odometer or hours input. Dual input allows any combination of two inputs.

Designed and manufactured for durability, accuracy and convenience, the Fuel Point Vehicle Module (VM) is programmed with vehicle identification and fuel authorization information, and automatically records odometer and/or hour meter data. Requirements for human interaction and chances of errors are eliminated.

Powered from the vehicle's power source, the microprocessor-based VM easily installs in the vehicle's passenger compartment, trunk or engine compartment. A typical installation on a familiar vehicle takes approximately 45 minutes. The VM accurately records miles and hours usage information through connections to the vehicle's speedometer and/or electrical system. An intrinsically safe antenna wire and tank antenna ring extend the module's read point to the vehicle's fill opening. When the nozzle is inserted into the fill opening, the VM automatically transmits the vehicle information through the tank antenna to the nozzle antenna. Two tank antennas may be used for saddle tank applications.

A flexible data format allows the module to be programmed to almost any data format. It can match existing Gasboy proprietary card formats, or with network permission, it can be programmed to match network cards. After the vehicle is retired, the VM may be transferred to another vehicle and reprogrammed indefinitely. VM data is retained in memory even with extended power loss, and does not require battery back-up.

Vehicle components are constructed for easy operation and tough performance. Easily programmed through the tank antenna ring, the VM allows recalibration of the odometer without having to directly access the module. Rugged design considerations, such as potted vehicle module construction and injection-molded antenna rings, enable the VM to withstand even the harshest fleet environments.

**GASBOY**

A TOKHEIM SUBSIDIARY

Advanced technology with proven performance



E. J. Ward, Inc.

## CANceiver

## PRODUCT DATA SHEET



The following data may be gathered on each fueling transaction for a vehicle that has an E. J. Ward, Inc. Canceiver, properly installed and assuming that the data is supplied by the vehicle manufacturer in question.

- Odometer
- Ignition Count
- Engine Time
- Maximum Speed
- PTO Time
- Total Fuel Consumed
- PTO Fuel Consumed
- Average MPG
- Maximum Engine RPM
- Maximum Engine Temp
- Total Idle Time
- Stop Idle Time
- Engine Oil Level
- Minimum Engine Oil Pressure
- Minimum Charging Voltage
- Diagnostic Fault Code Total Count
- Diagnostic Summary
- Diagnostic Trouble Code Strings

The CANceiver is a small electronic interface that connects to the vehicle's onboard diagnostic (OBD) connector. CANceiver utilizes the engine's computer network (CAN bus) on late model vehicles (1996 and up) to provide real time diagnostic data to automated fuel system terminals. Through one simple connection, CANceiver is supplied power and automatically collects vehicle data from the engine control module as soon as the engine is started. The laborious efforts of calibration, splicing into ignition wires, adding taxi taps or installing extra speed pickups are eliminated.

A second connection to CANceiver is the filler neck antenna. The filler neck antenna provides a wireless link to a dispenser's fuel hose. After engine shutdown CANceiver transmits its data through the filler neck antenna. A radio module on the fuel hose collects the CANceiver data, adds pump number information and retransmits the data to a fuel island terminal.

[www.ejward.com](http://www.ejward.com) 8801 Tradeway San Antonio, Texas 78217

Contact: John Featherston, VP Marketing (817) 910-9761 feather@ejward.com