

Memorandum



CITY OF DALLAS

DATE: August 1, 2014

TO: Members of the Budget, Finance & Audit Committee: Jerry R. Allen (Chair),
Jennifer S. Gates (Vice Chair), Tennell Atkins, Sheffie Kadane, Philip T. Kingston

SUBJECT: **Upcoming Agenda Item: Global Positioning System Master Agreement**

The August 13, 2014 Council Agenda includes an item for your consideration authorizing a five-year Master Agreement with three one-year renewal options with Radio Satellite Integrators, Inc. (RSI), for the lease, purchase, installation, maintenance and hosting of a citywide global positioning system (GPS) in an amount not to exceed \$5,869,200 - Financing: Current Funds, Aviation Current Funds \$140,242, Sustainable Development and Construction Current Funds \$144,306, Trinity Watershed Management Current Funds \$352,236 (subject to annual appropriations). This agreement does not encumber funds and does not obligate the City to spend the total amount associated with the contract. This proposed master agreement will replace an expiring GPS service contract currently used by Sanitation Services.

The new agreement will continue to provide GPS services for the Sanitation Department and also make the GPS technology and its associated benefits (see attachment) available to other operation-oriented City departments. A single citywide master agreement increases buying power and reduces overall costs for the City. Pending Council approval, the following departments intend to implement GPS services within the first year of the agreement: Aviation, Dallas Fire-Rescue, Equipment and Building Services, Office of Environmental Quality, Park and Recreation, Street Services, Sustainable Development and Construction, and Trinity Watershed Management.

Staff estimates expenditures of \$255,000 in FY13-14, to purchase approximately 600 new GPS devices and to fund monthly data subscription costs. In FY14-15, staff expects to spend \$571,000 to continue to support and expand GPS technology throughout the City. The remaining years of the contract provide funding to continue maintenance and support of the GPS system and to expand services where justified.

Please let me know if you need additional information.

A handwritten signature in black ink, appearing to read 'Forest E. Turner'.

Forest E. Turner
Assistant City Manager

Attachment

cc: A.C Gonzalez, City Manager
Warren M.S. Ernst, City Attorney
Craig D. Kinton, City Auditor
Rosa A. Rios, City Secretary
Daniel F. Solis, Administrative Judge
Ryan S. Evans, Interim First Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager

Joey Zapata, Assistant City Manager
Charles M. Cato, Interim Assistant City Manager
Theresa O'Donnell, Interim Assistant City Manager
Jeanne Chipperfield, Chief Financial Officer
Shawn Williams, Interim Public Information Officer
Elsa Cantu, Assistant to the City Manager – Mayor and Council

Global Positioning System Operational and Safety Benefits and Efficiencies

Sanitation Services was the first Department within the City to implement GPS technology, beginning with a pilot program in 2006. A full scale implementation followed in 2008, with 389 vehicles equipped with GPS devices. In the first year of operation, Sanitation Services saved approximately \$293,000 in overtime and fuel costs as a direct result of the GPS implementation. The functionality utilized to provide these savings include:

- **Real-Time Dispatching**: Enables staff to immediately dispatch the closest available vehicle to a service location in the case of an emergency, missed collection or service request. Reduces fuel consumption, decreases response times and improves overall customer service.
- **Engine Idle Time Reporting**: Allows staff to monitor engine idle times and identify excessive idling. Idle reductions decreases fuel consumption and engine emissions.
- **Collection Route Analysis**: Provides the ability to generate reports for traveled routes and compare it against planned routes, through analysis outside of the GPS application. Assists with identifying and correcting improper routes, resulting in decreased fuel consumption and quicker response times.

The proposed GPS Master Agreement included on the August 13th Council Agenda will continue to provide the aforementioned functionality to Sanitation Services, as well as enhanced technologies that will offer new operational and safety benefits and additional opportunities for cost savings. The proposed agreement will be available to all other City departments, with eight intending to implement GPS services in year 1. New departments will leverage GPS technology to realize the benefits, efficiencies and cost savings opportunities available under the original contract, as well as those under the new agreement. Benefits and efficiencies associated with the proposed Master Agreement include:

- **Location Button**: Device installed within a vehicle which allows drivers to save the address of a location in need, such as blocked service access or an obscured alleyway. This technology enables Departments to identify and resolve issues before they are reported.
- **Driver Safety Reporting**: The GPS system enables Departments to generate reports which can assist with identifying, rewarding and encouraging safe drivers and safe driving behavior. Reports include: Excessive speed, hard braking, and work area breaches.
- **Real-Time Route Auditing**: The new GPS software application allows Departments to identify if planned routes are being adhered to in real time, enabling them to make adjustments or corrections immediately rather than after the fact.
- **Panic Button**: Device installed in a vehicle which allows a driver to report an emergency to management in real time with the push of a button.