



CITY OF
FORT LAUDERDALE

City Manager's Office

Memorandum

Memorandum No:

Date: September 10, 2012

To: Honorable Mayor and Commissioners

From: Lee R. Feldman, ICMA-CM, City Manager

Re: Vehicle Purchase for V4102, September 18, 2012 Commission Meeting

Vehicle Description and Use

Unit V4102 is a 1997 Caterpillar forklift model DP90-D with a 20,000 lb capacity. This equipment is currently used to load and unload inventory in the pipe-yard depot 24 hours a day 7 days a week. This inventory is comprised of pipe materials, parts, and aggregates needed to maintain the water distribution system and wastewater and storm water collection systems by the Public Works Utilities Bureau.



Vehicle Condition

Unit V4102 was put in service on December 1997. This unit has been retained six years past its recommended lifecycle replacement date. It is also facing serious service, repair, and availability issues.

City of Fort Lauderdale Fleet Services Vehicle Replacement Analysis and Summary V4102

<u>FACTOR</u>	<u>POINTS</u>	<u>INPUT</u>	<u>SCORING GUIDELINES</u>
Age	12	12	One point for each year of chronological age, based on in-service date.
Miles	10.3	3,085	One point for each 300 hours of use.
Type of Service	4	4	1 to 5 points are assigned based on the type of vocational use and service duty.
Reliability	4.75	1.73	Points are assigned as 1 to 5 depending on the frequency that the vehicle is in the shop for repair. 5 = two or more times per month average. 4 = one time per month average. 3 = once every two months average. 2 = once ever three months average. 1 = once every four months or less average. Does not include scheduled PM service.
O&M Costs	4.8	95%	Points assigned based on total life O&M costs (not including cost of repair due to accident damage) compared to vehicle's original purchase price. 1=20%, 2=40%, 3=60%, 4=80%, 5=100%.
Condition	5	Poor	Takes into consideration body condition, rust, interior condition, accident history, anticipated repairs, etc. A scale of 1 to 5 points. 1 = new, 2 = very good, 3 = good, 4 = fair, 5 = poor.
Total Points	41	Condition IV - Qualifies for Replacement	

SUMMARY

Downtime: 5,565 hours

Note:

Due to the fact that fuel system replacement parts no longer available, the unit's broken electronic fuel shutoff switch could not be replaced. A manually controlled fuel shutoff had to be fabricated.

<u>Points</u>	<u>Condition</u>
<18	I Excellent
18 to 22	II Good
23 to 27	III Requires replacement during current fiscal year
28 or more	IV Needs immediate replacement due to safety concerns or catastrophic mechanical failure

Proposed Replacement

The Caterpillar P2000-D is a 20,000 lb capacity, Class VII forklift.

Class VII – Rough terrain forklift is a generic term used to describe forklifts typically intended for use on unimproved natural terrain and disturbed terrain construction sites.

The replacement unit will be equipped with a hydraulically actuated fork positioning carriage. This will give the operator the ability to adjust the width of the forks from inside the cab to accommodate the various load requirements. Presently, the operator must leave his cab and adjust the forks manually. Therefore, this feature will improve operator safety and unit productivity. Also, to enhance operational safety, it will be equipped with both front facing and rear facing work lights and a backup alarm.

The engine of this replacement forklift offers better fuel economy, lower exhaust and greenhouse gas emissions, and a reduced carbon footprint.

An example of this forklift is pictured below.



c: Stanley D. Hawthorne, Assistant City Manager
Susanne M. Torriente, Assistant City Manager
Harry A. Stewart, City Attorney
Jonda K. Joseph, City Clerk
John C. Herbst, City Auditor
Chaz Adams, Public Affairs Manager
Albert J. Carbon, P.E., Public Works Director