

City of Madison

MADISON METRO TRANSIT SYSTEM

Date:	September 28, 2007
To:	Transit and Parking Commission
From:	Ann Gullickson, Transit Service Manager
Re:	Tracking Costs of the Diesel Electric Hybrid Buses

Computer records are retained for all maintenance work on every transit vehicle. The TransitFleet system is a work order system where files are kept listing every task performed on each vehicle. This enables close monitoring of the vehicle fleet in terms of repairs, preventive maintenance intervals, road call intervals and rebuild intervals. The computer file also lists the amount of time it takes the mechanics to complete a task as well as the cost of repair parts associated with the repair. Fueling and fluids are also tracked on the computer.

The software allows us to group buses by manufacturer and/or production order, and perform analysis and comparison of the different bus groups in the fleet. We will be tracking the performance of the hybrids as a group, compared to other buses in the fleet, both in terms of maintenance costs and fuel consumed.

The table below is an example of the type of tracking that is done on a monthly basis. It is the September 2007 Fuel Report for the fixed route fleet.

# Buses	Type	Miles	MPG	Fuel Pumped
5	Orion 5 Non Lift	2,071	3.77	549.1
22	Orion 5 Lift	20,038	3.92	5,111.5
20	Orion 5 Lift	17,834	4.2	4,243.7
36	Gillig Lift	37,149	4.34	8,553.1
75	New Flyer Low Floor	179,001	4.40	40,685.4
46	Gillig Low Floor	189,092	4.65	40,676.4
204	Fixed Route Total	445,185	4.46	99,820.0