



Customer Service, Operations and Safety Committee

Board Action Item IV-B

December 7, 2006

Bus Semi-Annual Update

**Washington Metropolitan Area Transportation Authority
Board Action/Information Summary**

<input type="checkbox"/> Action <input checked="" type="checkbox"/> Information	MEAD Number:	Resolution: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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PURPOSE

To update the Board on Metrobus accomplishments in 2006 which are noticeable to the customer.

DESCRIPTION

- Replaced 417 older buses and reduced the average fleet age from 10.1 years to approximately 6.5 years.
- The Board authorized a multiple-year bus procurement replacing up to 500 buses over five years (100 buses per year) to maintain the fleet age. An option for an additional 100 buses per year is included in the contract.
- In November, production began on 25 Metro Matters “expansion” buses.
- Received notification of the award of two grants for hydrogen buses.
- The mid-life overhaul completed its 1000th bus and overhauled 106 buses.
- The Clean Fleet project is complete. WMATA now has the lowest/cleanest emissions possible without total fleet replacement.
- In April, 100% of the bus fleet became wheelchair accessible.
- New fare boxes are installed and working.
- The Automatic Vehicle Location (AVL) system is providing the bus location, and the new bus radio system is providing communications.
- Equipped 742 buses (about half the bus fleet) with security cameras.
- Riders on Bus Lines 90, 92, 93, 9A, 9E, F4, and F6 are able to get next bus information in a public Beta test.



BUS SEMI-ANNUAL UPDATE

Presented to the Board of Directors:

**Customer Service, Operations and Safety
Committee**

December 7, 2006



Delivery of 417 Replacement Buses

- 2 Manufacturers
- 4 Contracts
- 5 Bus Models
- 3 Powertrain Technologies
- Manufacture and Delivery Process

Delivery of 417 Replacement Buses (Continued)

- Training the Training Instructors
- Training Bus Maintenance Employees and Bus Operators
- Acceptance, D.C. Inspection and Commissioning of all 417 Buses
- Removing 417 older buses from revenue service
- Reliability Issues

Bus Procurements

250 COMPRESSED NATURAL GAS BUSES



215 - 40' buses

35 - 30' buses



Bus Procurements (Continued)

50 HYBRID / ELECTRIC BUSES



39 “Standard” Hybrid Electric Buses

11 “Restyled” Hybrid Electric Buses



Bus Procurements (Continued)

117 ADVANCED TECHNOLOGY DIESEL BUSES

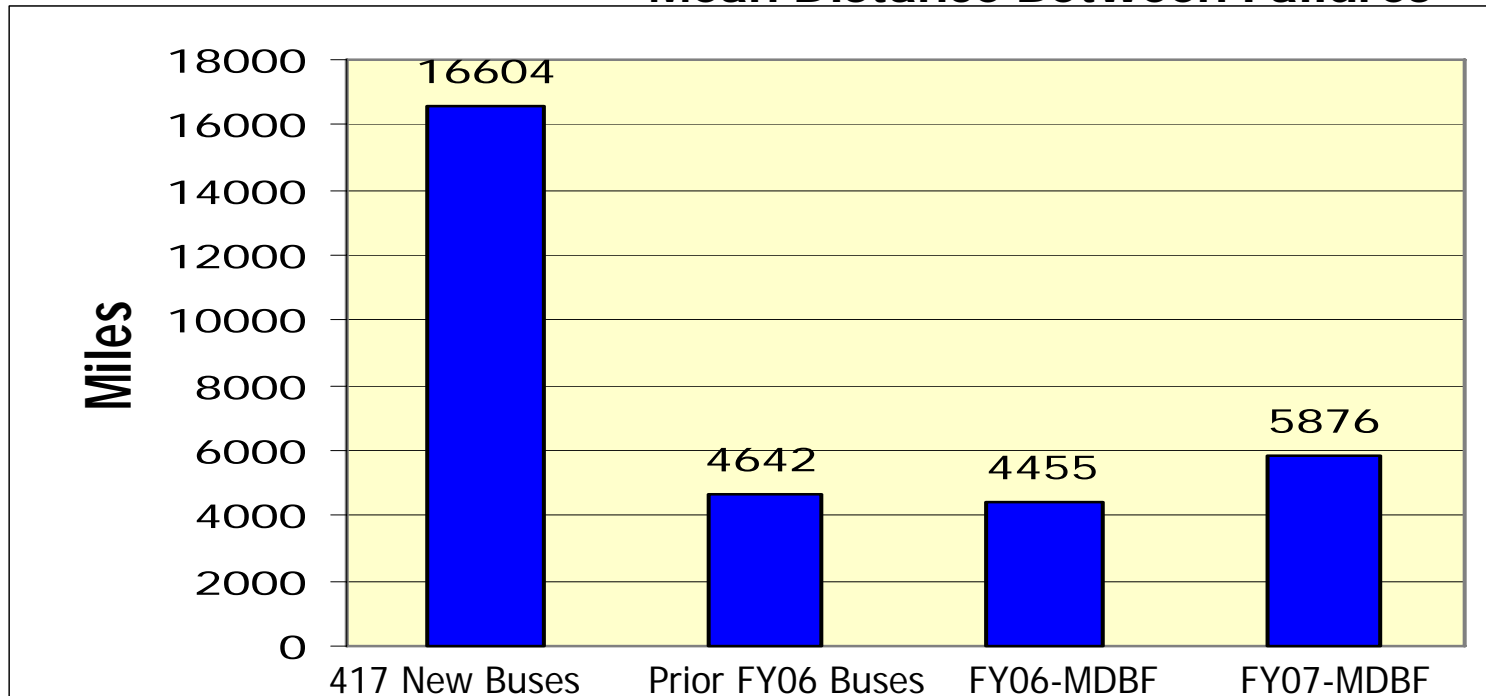


117 "Restyled" Advanced Technology Diesels



Fleet Reliability

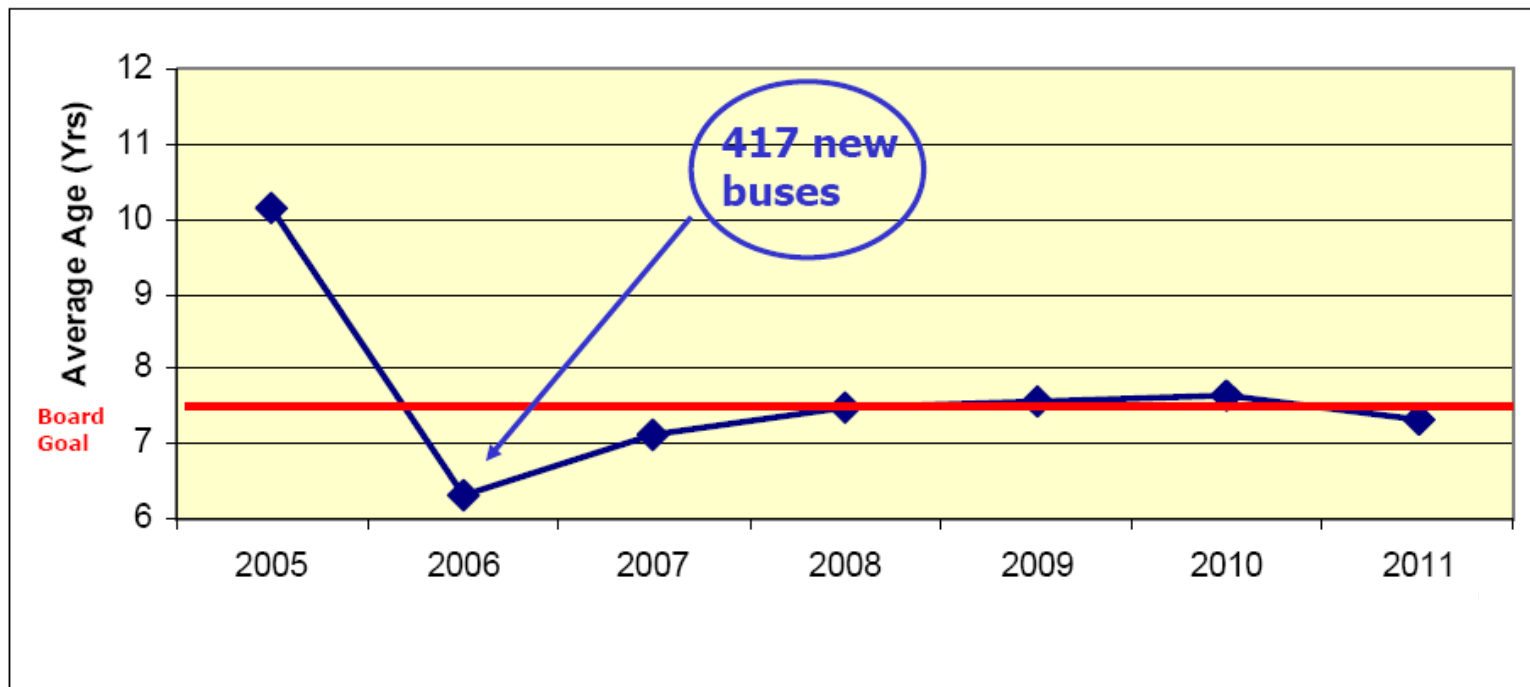
Mean Distance Between Failures



- The Fleet Mean Distance Between Failures for the 417 buses purchases in FY06 is 16,604 miles for the same period
- The Fleet Mean Distance Between Failures for all buses purchased prior to FY06 is 4,642 miles
- The Total Fleet Mean Distance Between Failures has improved 24.2% from 4,455 miles between failures in FY06 to 5,876 miles between failures in FY07 for the same period

Bus Procurement (Continued)

AVERAGE FLEET AGE AFTER 417 NEW BUS DELIVERIES and PROJECTED MULTIPLE YEAR BUS PROCUREMENT



- Graph reflects planned annual delivery schedule of 185 Metro Matters Expansion Buses
- Fleet average age will be higher if MM 185 buses are not procured and fleet expansion occurs without additional new buses
- Fluctuation in average fleet age due to projected delivery rate of new buses vs. retirement of older buses in fleet .

Active Bus Fleet Profile

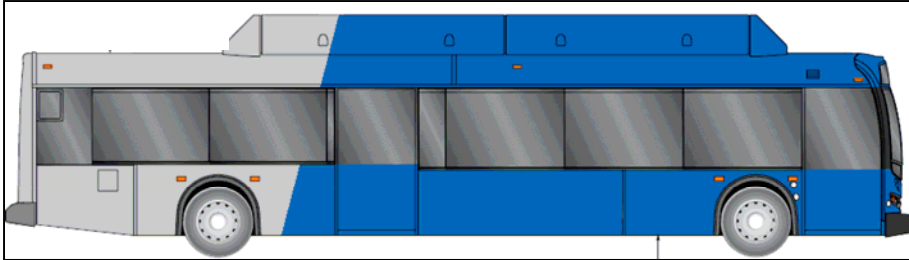
After Delivery of 250 CNG, 50 Hybrid/Electric and 117 Advanced Technology Diesel Buses

BUS MANUFACTURER	ASSIGNED FLEET NUMBERS	PRODUCTION DATES (model year)	NUMBER OF BUSES	TOTAL BUSES	% OF TOTAL FLEET
Flxible (High Floor) (Cummins L-10 240)	9301 - 9413 9481 - 9498**	1990 1990	21 13	34	2.3%
Orion V (High Floor) (Detroit S-50 '04)	9602 - 9660	1992	59	59	4.0%
Flxible (High Floor) (Cummins L-10 280) (Cummins M-11) (Detroit S-50)	9701 - 9785 9801 - 9818 9819 - 9835 4001 - 4104	1993 1994 1994 1994	85 18 17 104	224	15.1%
Ikarus (Articulated) (Cummins M-11)	5201 - 5245***	1995	41	41	2.7%
Orion V (High Floor) (Detroit S-50)	3900 - 3950* 4200 - 4412 2100 - 2231 2000 - 2099	1997 1997 2000 2000	51 212 131 97	491	33.2%
Orion VI (Low Floor)					
Orion II (Low Floor) (Cummins B5.9E)	3701 - 3740 3741 - 3742	1999 2000	18 2	20	1.4%
Ford Cutaway (TAGS)	C001 - C004	2001	4	4	0.3%
New Flyer CNG (Low Floor) (Cummins 8.3E) (John Deere)	2300 - 2399 2401 - 2459 2460 - 2464	2001 2002 2002	100 59 5	164	11.1%
Neoplan (Articulated) (Detroit S-60)	5301 - 5321***	2003	21	21	1.4%
Thomas SLF (Low Floor) (Cummins B5.9E)	3951 - 3954	2003	4	4	0.3%
Orion VII CNG (Low Floor) (Cummins 8.3E) (John Deere) (Cummins 8.3E)	2501 - 2615 2616 - 2685 2701 - 2730 3001 - 3035*	2005 2005 2005 2005	115 70 30 35	250	16.9%
New Flyer Hybrid (Low Floor) (Cummins/ Allison)	6001 - 6039 6040-6050 Restyle	2006 2006	39 11	50	3.4%
New Flyer Advanced Technology Diesel (Low Floor) (Cummins/Voith)	6101-6205 Restyle 6206-6217 Restyle	2006 2006	105 12	117	7.9%
TOTAL			1479	1479	100%

BUS LENGTHS : * = 30' ** = 35' *** = 60' Otherwise Bus Length = 40'

3701 - 3742 = 26'
3951 - 3954 = 31'

Upcoming New Bus Procurements



Funded 25 “Restyled” CNG Buses for Fleet Expansion

- 14 for Georgia Avenue Enhanced Service
- 11 for service expansion



Funding to be determined for two grants for up to six hydrogen buses

- Two buses under Ballard Grant
- Four buses under UTC Grant

Upcoming New Bus Procurements (Continued)

FY '08 – '12 MULTIPLE-YEAR BUS PROCUREMENT

- June 2006 the WMATA Board authorized the initiation of a multiple-year bus procurement
- This procurement allows WMATA to purchase up to 500 replacement buses over five years at 100 buses per year and maintain the average fleet age recommended by the APTA peer review. An option for an additional 100 buses per year (over five years) for fleet expansion is included in the contract
- The contract was advertised in November and a recommendation to the Board for award is tentatively scheduled for Spring 2007. It is anticipated that the base order for up to 100 buses would commence delivery in the 1st quarter of 2008. The first 50 buses under the contract will complete the Board Resolution for Maryland buses
- The first 50 buses received meet the purchase requirement of State of Maryland

New Technologies



Bus Fare System Replacement



Automatic Vehicle Location/Bus Radio System Installation



Security Systems on approximately 50% of the Fleet



Real Time Passenger Information in public testing

Fleet Improvements



- Clean Fleet Program
- Mid-life Overhaul
- 100% Wheel Chair Accessibility

