



Metro

NOVEMBER 15, 2005

TO: BOARD OF DIRECTORS

THROUGH: ROGER SNOBLE
CHIEF EXECUTIVE OFFICER

FROM: JOHN B. CATOE, JR.
DEPUTY CHIEF EXECUTIVE OFFICER

SUBJECT: METRO BUS FLEET REPLACEMENT PLANS
FLEET RELIABILITY

ISSUE

At its September 22, 2005 meeting, the Board inquired about Metro's average bus fleet age, and subsequently asked for additional information and statistics relating to Metro's bus fleet.

BACKGROUND

As requested, the attached report summarizes current fleet status and reliability information.

Fleet Inventory: As of October 1, 2005, Metro was operating an active fleet of 2,510 vehicles. Currently there are 393 vehicles over 12 years of age; 299 of these are former methanol/ethanol buses converted to diesel, which extends their lives approximately 2 years. The remaining 94 buses are being kept in service to meet Consent Decree related service obligations until new vehicles arrive.

Planned Replacement: Metro has an on-going fleet replacement program that ensures scheduled replacement of our oldest vehicles after 13 years. Additionally, Metro will keep the average fleet age between 6 and 7 years by planned vehicle replacement (current fleet age is approximately 6.3 years). Other sampled transit properties average fleet age range as follows:

Transit Agency	Avg. Fleet Age ⁱ
Washington D.C.	8.2 Years
Chicago	9.0 Years
Seattle	6.6 Years
Boston	11.6 Years
New York	6.7 Years
Orange County	7.0 Years
San Francisco	7.2 Years

Pending Purchases: In the last year, Metro received over 200 new vehicles, and is scheduled to receive approximately 100 – 150 new vehicles per year for the next three years.

Fleet Reliability: In terms of fleet reliability, from January – May 2005 (most recent period available), bus fleet reliability averaged 2,945 miles/roadcall. This data includes both mechanical failures as well as other non-mechanical service disruptions (e.g. sick passengers, accidents).

ATTACHMENTS

- A. Active Fleet Inventory and Assignments as of October 1, 2005.
- B. Metro Fleet “Total Ownership” (Includes inactive transit vehicles) as of October 1, 2005.
- C. Fleet Age Comparison with other Transit Properties.
- D. Summary of Planned Vehicle Retirements
- E. New Vehicle Procurements for next five years (from Metro Fleet Management Plan).
- F. Bus Fleet Reliability

Prepared by: Richard Hunt, General Manager, San Fernando Valley Sector

¹ Data from Washington, Chicago, Seattle, Boston and New York is from APTA's National Transit Database for 2003 (most recent published information available). Data from OCTA and Chicago was reported by those agencies for current fleet age.

ATTACHMENT A

Bus Assignment By Series/Service Sectors - Operating Divisions
(Active Fleet)
As of October 1, 2005

Series	Make	Year	GATEWAY CITY SERVICE SECTOR			SAN FERNANDO VALLEY SERVICE SECTOR			SAN GABRIEL VALLEY SERVICE SECTOR			SOUTH BAY SERVICE SECTOR			WEST/ CENTRAL SERVICE SECTOR			TOTAL ALL SERVICE SECTORS	
			DIV 1	DIV 2	TOTAL	DIV 8	DIV 15	TOTAL	DIV 3	DIV 9	TOTAL	DIV 5	DIV 18	TOTAL	DIV 6	DIV 7	DIV 10		TOTAL
12-1502	TMC-CONV/DIESEL	1992	25	30	55	21	24	45	7	21	28	26	31	57	49	27	12	88	273
1970-99	TMC-CONV/DIESEL	1989	0	0	0	2	0	2	0	0	0	5	0	5	6	0	13	19	26
10-2266	TMC-DIESEL	1988	6	3	9	5	11	16	0	6	6	2	7	9	3	6	9	18	58
13-2402	TMC-DIESEL	1989	0	0	0	0	1	1	0	0	0	0	4	4	0	1	0	1	6
10-3019	NEW FLYER LF	1998	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	20	20
1400	GMC RTSII	1982	0	0	0	0	0	0	23	7	30	0	0	0	0	0	0	0	30
15-4695	NEOP CNG HF	1995	0	0	0	98	98	196	0	0	0	0	0	0	0	0	0	0	196
16-4793	NEOP CNG HF	1997	0	0	0	24	0	24	0	0	0	0	63	63	0	0	11	11	98
30-5222	NEW FLYER HF	1999	0	0	0	0	0	0	0	0	0	145	0	145	0	77	0	77	222
33-5522	NEW FLYER LF	2000	112	51	163	0	0	0	0	0	0	0	47	47	0	0	11	11	221
33-6600	NEOP CNG HF	97,98	0	0	0	0	0	0	0	0	0	0	129	129	0	169	0	169	298
37-6799	NEOP CNG HF	1999	0	0	0	0	0	0	99	0	99	0	0	0	0	0	0	0	99
70-7214	NABI LF	2000	31	0	31	1	31	32	64	0	64	2	3	5	0	62	0	62	194
73-7514	NABI LF	2001	26	51	77	10	34	44	18	28	46	0	0	0	0	45	0	45	212
7525-99	NABI LF (STEEL)	2005	0	15	15	0	15	15	0	15	15	8	6	14	0	15	0	15	74
76-7949	NABI LF	2001	18	52	70	25	57	82	0	127	127	59	0	59	0	11	0	11	349
7980-99	NABI LF (COMPOSITE)	2002	0	0	0	0	0	0	0	0	0	7	0	7	0	11	0	11	18
30-8099	NABI (COMP) 45FT	2004	24	0	24	0	0	0	0	0	0	2	0	2	0	0	60	60	86
32-9599	NABI ARTIC 60FT	2005	0	0	0	30	0	30	0	0	0	0	0	0	0	0	0	0	30
Total			242	202	444	216	271	487	211	204	415	256	290	546	78	255	285	618	2510

Buses over 12 Years

(Total Ownership)

As of October 1, 2005

Series	Make	Year	Service Sectors	Total All	Contingency Fleet	RRC	Pending Evaluation For Sale	On Sales List	Make Ready	MV Transit	First Transit	SO Land Transit	Trans. Crpt	Leased Buses	Special Assignments (*)	Total All Location
1100	NEOPLAN	1987		0	0	0	2	0	0	0	0	0	0	0	0	2
12-1502	TMC-CONV/DIESEL	1992		273	0	0	13	0	0	0	0	3	0	4	9	302
1970-99	TMC-CONV/DIESEL	1989		26	0	0	4	0	0	0	0	0	0	0	0	30
20-2266	TMC-DIESEL	1988		58	0	0	35	0	0	0	0	1	0	0	26	120
23-2402	TMC-DIESEL	1989		6	0	0	13	0	0	0	0	9	0	0	10	38
29-2932	FLX METRO	1992		0	0	0	10	0	0	0	0	0	0	0	0	10
30-3019	NEW FLYER LF	1998		20	0	0	0	0	0	0	0	0	0	0	0	20
4400	GMC RTSII	1982		30	0	0	0	0	0	0	0	0	0	0	0	30
45-4695	NEOP CNG HF	1995		196	0	0	0	0	0	0	0	0	0	0	0	196
46-4793	NEOP CNG HF	1997		98	0	0	0	0	0	0	0	0	0	0	0	98
50-5222	NEW FLYER HF	1999		222	0	0	0	0	0	0	0	0	0	0	1	223
53-5522	NEW FLYER LF	2000		221	0	0	0	0	1	0	0	0	0	0	1	223
63-6600	NEOP CNG HF	97,98		298	0	0	1	0	0	0	0	0	0	0	1	300
67-6799	NEOP CNG HF	1999		99	0	0	0	0	0	0	0	0	0	0	1	100
70-7214	NABI LF	2000		194	0	0	13	0	2	0	0	0	0	0	6	215
73-7514	NABI LF	2001		212	0	0	2	0	0	0	0	0	0	0	1	215
7525-99	NABI LF (STEEL)	2005		74	0	0	0	0	1	0	0	0	0	0	0	75
76-7949	NABI LF	2001		349	0	0	1	0	0	0	0	0	0	0	0	350
7980-99	NABI LF (COMPOSITE)	2002		18	0	0	0	0	2	0	0	0	0	0	0	20
80-8099	NABI (COMP) 45FT	2004		86	0	0	0	0	13	0	0	0	0	0	0	99
92-9599	NABI ARTIC 60FT	2005		30	0	0	0	0	21	0	0	0	0	0	0	51
9837-70	EL DORADO	2002		0	0	0	0	0	0	0	13	0	21	0	0	34
9900	ELD/THMS/GIL/BB	2001		0	0	0	0	0	0	4	7	22	26	0	0	59
11000	ORION	2001		0	0	0	0	0	0	0	67	0	0	0	0	67
Total				2510	0	0	94	0	40	4	87	35	47	4	56	2877

Buses Over 12 Years

Top Ten US Transit Properties

Fleet Age

New York Transit	6.7 Years**
New Jersey Transit	5.5 Years**
LA Metro	6.3 YEARS
CTA (Chicago)	9 Years*
WMATA (Washington DC)	8.2 Years**
King County (Seattle)	6.6 Years**
SEPTA (Philadelphia)	7.4 Years**
Houston Metro	4.9 Years**
MBTA (Boston)	11.6 Years**
Regional Transit District (Denver)	4.9 Years**
National Average (as reported by APTA)	7.5 Years**

* Transit property's current estimated average age.

** From National Transit Database. 2003 is most recent period with published information.

METRO 10-YEAR SERVICE FORECAST (FY 2006 - FY 2015)

Draft Revision, September 2005

ATTACHMENT E

Metro Fleet Inventory	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
DESCRIPTION OF MAJOR PLANNED CHANGES										
4 Metro Rapids (0): - Western - Santa Monica - Lincoln - Reseda Artic. Deployment Metro Connections	30	30	30	30	30	30	30	30	30	30
35-foot buses	1120	1000	894	776	659	573	440	138	0	0
40-foot buses (high floor)	1078	1078	1078	1078	1078	1078	1078	1078	856	532
40-foot buses (low floor)	100	100	200	250	300	300	300	300	300	300
45-foot buses	200	294	294	344	394	394	394	394	394	394
Articulated buses	0	0	0	0	0	0	125	375	625	750
High-Capacity Bus	0	6	6	6	6	36	61	111	161	186
Hybrid and ZEV Bus	2528	2508	2502	2484	2461	2375	2367	2315	2205	2006
Total D.O. In-Service										
Inactive Buses										
Pending Eval./Sale pending, Make Ready, Other	100	100	100	100	100	100	100	100	100	100
Contract Buses	175	175	175	175	175	175	175	175	175	175
Metro Fleet - Total Ownership	2803	2783	2777	2759	2736	2650	2642	2590	2480	2281
Seats in Active Service (not incl. Spares)										
Active Seats In-Service (Metro Only)	90,300	90,465	90,500	90,563	90,663	87,581	85,232	88,243	86,732	81,348
Total Seats In-Service (Contractor Buses)	5,833	5,833	5,833	5,833	5,833	5,833	5,833	5,833	5,833	5,833
Total Seats	96,133	96,298	96,333	96,397	96,496	93,414	94,065	94,077	92,565	87,182
Bus Procurement Schedule										
NABI - Articulated Buses	167									
NABI - 60' Articulated Buses - Options		94		100		70				
45' Compo-Buses (New Procurement)			100							
ATVC Hybrid Buses		6								
High-Capacity Bus (2012-2015)					125	25	25	250	50	125
Zero Emission Buses						30		50	50	25
Total Planned Procured	167	100	100	100	150	100	150	300	300	150
Average Fleet Age (13 Year Replacement Cycle):	6.3	6.5	6.7	6.9	7.2	7.7	7.9	7.3	6.5	6.0

Seat assumptions:
 40-foot bus = 40 seats
 45-foot bus = 46 seats
 60-foot bus = 57 seats
 High-capacity bus = 52 seats (hybrid average between 45-foot bus and a 60-foot bus)

BUS FLEET RELIABILITY

ATTACHMENT F

BUS SERIES	Total Mileage, Jan-May 2005	Total Road Calls Jan-May 2005	Total Miles B/T Roadcalls
7525-99 NABI LF (CNG)	173,818	25	6,953
30-3019 NEW FLYER Diesel	247,166	37	6,680
45-4695 NEOP CNG (LG)	3,809,148	686	5,553
7980-99 NABI LF CNG	393,954	74	5,324
76-7949 NABI LF CNG	7,239,727	1,998	3,623
80-8099 NABI (COMP) 45FT	966,832	272	3,555
1970-99 TMC-CONV/DIESEL	295,429	86	3,435
4400 GMC RTSII Diesel	459,725	139	3,307
12-1502 TMC-CONV/DIESEL	3,370,866	1,093	3,084
63-6600 NEOP CNG (NM)	5,991,004	1,974	3,035
50-5222 NEW FLYER HF	3,799,011	1,316	2,887
46-4793 NEOP CNG (NE)	1,716,600	599	2,866
73-7514 NABI LF CNG	4,349,869	1,528	2,847
20-2266 TMC-DIESEL	1,210,027	441	2,744
67-6799 NEOP CNG (OV)	1,949,120	759	2,568
23-2402 TMC-DIESEL	427,918	178	2,404
70-7214 NABI LF CNG	3,441,761	1,531	2,248
29-2932 FLX METRO	95,483	49	1,949
53-5522 NEW FLYER LF CNG	3,926,983	2,112	1,859
TOTAL	43,864,441	14,897	2,945

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