

**METROPOLITAN WASHINGTON COUNCIL OF GOVERNMENTS**  
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**MEMORANDUM**

**TO:** Regional Bus Subcommittee

**FROM:** Robert L. Snead,  
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**SUBJECT:** Draft Transit Inputs for the 2007 CLRP and FY2008-2013 TIP

**Date:** April 20, 2007

The regional travel model for the Washington region requires the development of two transit networks representing peak-period service and off-peak-period service. Transit frequencies for the peak period are based on scheduled service occurring between 7 AM-7:59 AM<sup>1</sup>. The off-peak period frequencies are based on service occurring between 10:00 AM-2:59 PM. Although the off-peak period covers 5 hours, the maximum headway coded on the transit line files is 60 minutes.

TPB transit line files are developed using mode codes, which designate a specific provider (or provider group) and represent operations for twenty-two transit service providers. Transit operations and providers are allocated to nine mode codes: 1) local Metrobus routes, 2) Express Metrobus routes that use HOV lanes, 3) Metrorail lines, 4) Commuter Rail lines, 5) Light Rail and Transitway lines, 6) Primary local bus lines and 7) Primary express bus lines for the inner jurisdictions, and 8) Secondary local bus lines and 9) Secondary express commuter bus lines for the remaining outer ring areas. Exhibit 1 presents a summary of in-vehicle and out-of-vehicle mode conventions used in coding transit line files.

As stated earlier in this memo, transit line files are time-of-day specific, so there is one set of line files for the AM peak period and one set for the off-peak period. "Headway" is the time between successive arrivals (or departures) of transit vehicles on a given route. "Run time" is the time in minutes that it takes for the transit vehicle to go from the start to the finish of its route and is a measure of the average speed of the vehicle on that route. Transit-in-vehicle times are controlled by the runtime coded on each transit line. This means that the bus running times are not computed on the basis of highway link-coded speeds over which lines are coded, but rather, are based on actual bus schedule times.

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<sup>1</sup> In the case of secondary local and secondary express commuter bus service, which generally originates in the outer reaches of the study area and begins much earlier than 7 AM, the AM peak period definition is relaxed to an earlier period for which service is most concentrated.

**Exhibit 1**

**Summary of Version 2.2 Model Transit Mode Codes and Service Providers**

**2007 CLRP and FY2008-2013 TIP**

<b>In-Vehicle Mode Codes</b>			
<b>Mode No.</b>	<b>Mode Description</b>	<b>Abbreviation/Prefix</b>	<b>Transit Service</b>
1	Local Metrobus	"WM01-97, A-Z"	WMATA (DC, Alex., Falls Church, & MTG, PG, ARL, FFX Counties)
		"DCC"	District of Columbia Circulator
2	Express Metrobus	"WM05-29"	WMATA (ARL, ALEX, FFX)
		"REX"	WMATA (FFX, Co.)
3	Metrorail	"WMRED"	RED Line
		"WMBLU"	BLUE Line
		"WMGRN"	GREEN Line
		"WMORN"	ORANGE Line
		"WMYEL"	YELLOW Line
		"WMDULL"	DULLES Line
4	Commuter Rail	"VFRED"	Frederick Line (VRE)
		"VMASS"	Manassas Line (VRE)
		"MBRU"	Brunswick Line (MARC)
		"MCAM"	Camden Line (MARC)
		"MPENN"	Penn Line (MARC)
		"MFRED"	Frederick City Line (MARC)
		"AMTK"	Amtrak
5	Light Rail	"MTGLRT"	Georgetown Branch Light Rail (MTA)
		"LRTDC"	Anacostia Light Rail Line (DDOT / WMATA)
		"CCTLRT"	Montgomery Co. Corridor Cities Light Rail Line (MTA)
6	Other Primary - Local Bus	"ART"	Arlington County Bus
		"DAT"	City of Alexandria Bus
		"F"	Fairfax County Bus
		"SG"	Fairfax City Bus
		"GO"	Prince Georges County Bus
		"RO"	Montgomery Co. Ride On Bus
7	Other Primary - Express Bus	"DAT"	City of Alexandria Bus
		"F"	Fairfax County Bus
8	Other Secondary - Local Bus	"CC"	Calvert County Bus
		"FT"	Frederick County Bus
		"HT"	Howard County Bus
		"L"	City of Laurel Bus
		"LT"	Loudoun County Local Bus
		"OL"	OMNI-LINK (PrinceWilliam Co. Local)
		"ST"	St Mary's County Bus
		"V"	Charles County Bus (VanGO)
9	Other Secondary - Express Bus	"LC"	Lee Coaches Commuter Bus
		"LCS"	Loudoun Co. Commuter Bus
		"LINK"	Washington Flyer- Dulles/WFC
		"MT"	Maryland MTA Bus (Frederick, Howard, Anne Arundel, Calvert, St Mary's, & Charles Counties)
		"OR"	OMNI-RIDE (Prince William Co. Commuter Bus)
		"PQ"	Quicks Commuter Bus (Fredericksburg, Spotsylvania & Stafford Counties)
		"SDC"	Nat'l Coach Commuter Bus (Fredericksburg, Spotsylvania & Stafford Co's)
<b>Out-of-Vehicle Mode Codes</b>			
10	(Unused)		
11	Drive Access Links		
12	Bus-toRail transfer Link		
13	Walkinfg Link		
14	(Unused)		
15	PNR-to_Bus Stop		
16	Zonal Access or Egress		

AM peak period and off-peak period transit line data for 2006 is shown in Exhibits 2 and 3 respectively. The catalogs lists (1) Sequence number, (2) Line name, (3) Mode code, (4) Bus service frequency/headway, (5) Line direction (1 or 2 way), (6) Network origin node, (7) Origin, (8) Network destination node, (9) Destination, and (10) Average route run-time.