

# **2550 RAIL VEHICLE PROGRAM**

## **QUARTERLY PROJECT STATUS REPORT**

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND FUNDS FROM THE STATE OF CALIFORNIA.

## **TABLE OF CONTENTS**

	Page No.
Project Overview.....	1
Management Issues.....	2
Project Status	
• Schedule	3
○ Key Milestones Six-Month Lookahead .....	
○ Summary Schedule.....	4
○ 50-Car Buy Delivery Schedule.....	5
○ Schedule Narrative.....	6
• Project Cost Status.....	7
• Fiscal Year Cashflow.....	8
• Change Control Status.....	9
• Financial/Grant Status.....	10
Appendices.....	11-12

## **PROJECT OVERVIEW**

The base contract for the first fifty LRV cars is with AnsaldoBreda, S.p.A. of Naples, Italy. This contractor is one of several leading manufacturer of both heavy and light rail vehicles. AnsaldoBreda plans to dedicate one entire assembly line to the production of the 2550 light rail vehicles for the MTA. In the past, AnsaldoBreda satisfactorily designed, manufactured, and delivered one hundred-four A650 heavy rail vehicles that are presently in use on the MTA's Metro Red Line.

The 2550 contract also includes two 50-LRV pre-priced options for future growth, expansions, and new lines. These options will require future Board approval in order to become a binding contract requirement.

## **MANAGEMENT ISSUES**

**Concern No. 1:** Conduct MTA/AnsaldoBreda status review of proposed layout concepts and subcontractors in Los Angeles.

**Status/Action** This concern was addressed at the MTA/AnsaldoBreda meeting in Los Angeles on September 30, 2003. The MTA Integrated Project Team met with the AnsaldoBreda Vice President/Project Manager and the Chief Project Engineer. Basic layouts were reviewed and commented on and subcontractor arrangements were evaluated.

**Concern No. 2:** Conduct status audit of AnsaldoBreda facilities plus subcontractor and long lead procurements in Italy.






**Status/Action** The audit trip to Pistoia and Naples, Italy is scheduled for October 20-24, 2003.

**Concern No. 3:** Enhance “real time” technical communication by use of Project Quest networking.

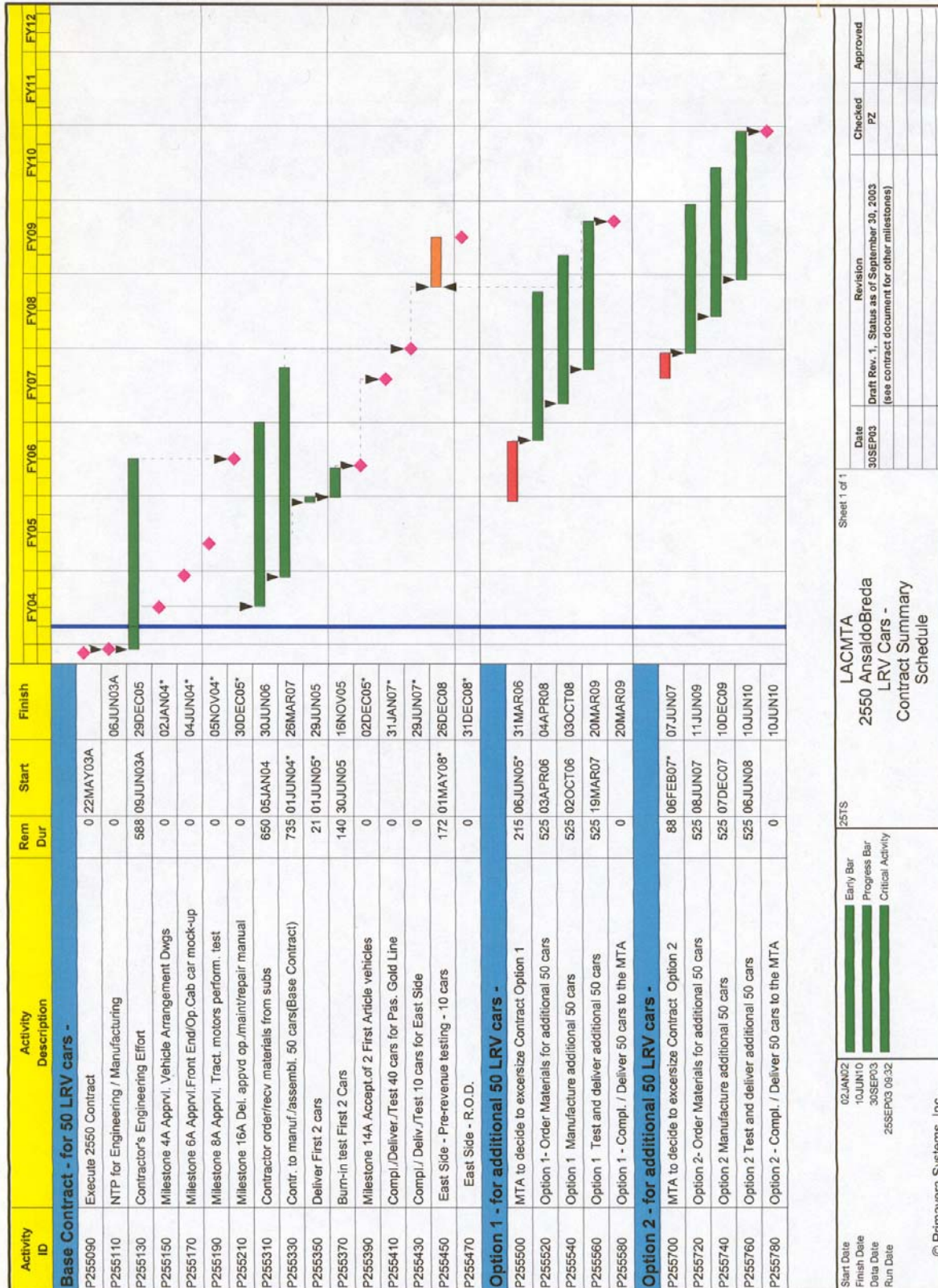
**Status/Action** MTA and AnsaldoBreda 2550 team members connected to Project Quest. All team members were trained in July, August, and September 2003. Currently, documents and communications are being sent and reviewed in “real time.”

**KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD**

	Milestone Date	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04
1A-Approval of Contractor's Preliminary 13-Week Schedule	9/5/03	○					
2A-Approval of vehicle cross-section drawings and vehicle static and dynamic clearance drawings	11/7/03			○			
3A-Approval of general vehicle arrangement drawings and System Safety Program Plan	1/2/04					○	

 MTA Staff Milestone	 AnsaldoBreda, S.p.A Deliverables	 FTA Approval
 Other Agencies	* New Date	 MTA Board Approval

# SUMMARY SCHEDULE



Start Date	02JAN02	Sheet 1 of 1
Finish Date	10JUN10	LACMTA
Data Date	30SEP03	2550 AnsaldoBreda
Run Date	25SEP03 09:32	LRV Cars -
		Contract Summary
		Schedule
		25TS
		Revision
		Draft Rev. 1, Status as of September 30, 2003
		(see contract document for other milestones)
		Checked
		PZ
		Approved

© Primavera Systems, Inc.

**50-CAR BUY DELIVERY SCHEDULE  
METRO PASADENA GOLD LINE**

<b>FISCAL YEAR</b>	<b>VEHICLE NUMBERS</b>	<b>MONTHS AFTER JUNE 6, 2003 NTP</b>	<b>DELIVERY DATE</b>
06	1 & 2	24 MONTHS	6/05
07	3 & 4	25 MONTHS	7/05
	5 & 6	26 MONTHS	8/05
	7 & 8	27 MONTHS	9/05
	9 & 10	28 MONTHS	10/05
	11 & 12	29 MONTHS	11/05
	13 & 14	30 MONTHS	12/05
	15 & 16	31 MONTHS	1/06
	17 & 18	32 MONTHS	2/06
	19 & 20	33 MONTHS	3/06
	21 & 22	34 MONTHS	4/06
	23 & 24	35 MONTHS	5/06
	25 & 26	36 MONTHS	6/06
08	27 & 28	37 MONTHS	7/06
	29 & 30	38 MONTHS	8/06
	31 & 32	39 MONTHS	9/06
	33 & 34	40 MONTHS	10/06
	35 & 36	41 MONTHS	11/06
	37 & 38	42 MONTHS	12/06
	39 & 40	43 MONTHS	1/07

**METRO GOLD LINE EASTSIDE EXTENSION**

<b>FISCAL YEAR</b>	<b>VEHICLE NUMBERS</b>	<b>MONTHS AFTER JUNE 6, 2003 NTP</b>	<b>DELIVERY DATE</b>
08	41 & 42	44 MONTHS	2/07
	43 & 44	45 MONTHS	3/07
	45 & 46	46 MONTHS	4/07
	47 & 48	47 MONTHS	5/07
	49 & 50	48 MONTHS	6/07

## **SCHEDULE NARRATIVE**

Notice to proceed was given June 6, 2003. The base contract engineering effort will take approximately two years and the delivery of the first two cars is scheduled for June 2005. The 50 cars base contract delivery will be divided between the Metro Pasadena Gold Line (40 cars) the Metro Gold Line Eastside Extension (10 cars). The last (fiftieth) base contract LRV is scheduled for delivery in 48-months after NTP, or at approximately June 2007.

The delivery rate planned by the contractor is two LRVs per month. The require delivery dates in the contract have liquidated damages assessments that can be imposed for late deliveries.

The 2550 contract contains two options, which, if exercised, would extend the contract another two years each or sooner. The options will only be awarded subject to adequate funding and MTA Board approval.

Option No. 1 for 50 LRVs may be exercised at 24 months after NTP, but no later than 34 months after the Base Order Notice to Proceed or approximately March 2006. Option No. 2 for 50 LRVs may be exercised at 42 months after NTP, but no later than 48 months after the Base Order Notice to Proceed or approximately June 2007.



**PROJECT COST STATUS**

<b>ELEMENT</b>	<b>LRV PROJECT BUDGET FOR 800151 (PASADENA)</b>	<b>LRV PROJECT BUDGET FOR 800088 (EASTSIDE)</b>	<b>TOTAL LRV PROJECT BUDGET</b>	<b>COMMENTS</b>
<b>Base Buy 50 LRVs</b>	\$119,734,00	\$29,933,500	\$149,667,500	40 LRVs for the Pasadena Gold Line and 10 LRVs for the Eastside Line
<b>Base Buy Spare Parts</b>	\$5,849,886	\$1,462,471	\$7,312,357	
<b>Base Buy Special Tools &amp; Test Equip</b>	\$1,407,051	\$351,763	\$1,758,814	
Subtotals	\$126,990,937	\$31,747,734	\$158,738,671	
<b>Contingency</b>	\$12,699,094	\$3,174,773	\$15,873,867	.
<b>Subtotals</b>	<b>\$139,690,031</b>	<b>\$34,922,507</b>	<b>\$174,612,538</b>	
<b>Rail Consultant</b>				
<b>Rail Consultant</b>	\$6,870,830	\$1,717,707	\$8,588,537	Contract PS 8310-1267 for Rail Consultant staff technical services
<b>Contingency</b>	\$343,542	\$85,885	\$429,427	
<b>Subtotals</b>	<b>\$7,214,372</b>	<b>\$1,803,592</b>	<b>\$9,017,964</b>	
<b>MTA Staff</b>				
<b>MTA Staff</b>	\$6,014,602	\$1,577,798	\$7,592,400	MTA staff on the Integrated Project Team
<b>TOTALS</b>	<b>\$152,919,004</b>	<b>\$38,303,898</b>	<b>\$191,222,902</b>	

9/12/03

FISCAL YEAR CASH FLOW

**METRO GOLD LINE CONTRACT P2550, LIGHT RAIL VEHICLES**  
**BASE CONTRACT AWARD OF \$158,739,671 - MILESTONE PAYMENT CASHFLOW BREAKDOWN BY PROJECT, MONTH & FISCAL YEAR**  
 Larry Kelsey 22 SEPTEMBER 2003 Rev 1 (Supersedes 6 June 2003) [Next Revision Due November 14, 2003]  
 [THIS FORECAST BASED UPON CIRCUMSTANCES KNOWN AT THIS TIME - MITIGATION IS BEING NEGOTIATED, BUT EXPECTED TO AFFECT ONLY CASHFLOW FOR FY04 & FY05]

Payment Date	Mos After June 6 2003 (FY04) NTP	Table A Contract Milestone Payments [85% PGL]	Table A Contract Milestone Payments [20% ESGL]	Table B Individual Vehicle Milestone Payments [40 LRVs PGL]	Table B Individual Vehicle Milestone Payments [10 LRVs ESGL]	Per Table C Spare Parts Delivery Milestone Payments [80% PGL]	Per Table C Spare Parts Delivery Milestone Payments [20% ESGL]	PASADENA TOTAL Vehicle Milestone Payments	PASADENA FISCAL YEAR SUBTOTALS	EASTSIDE TOTAL Vehicle Milestone Payments	EASTSIDE FISCAL YEAR SUBTOTALS	TOTALS	FY
Jul-03	1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	FY03
Aug-03	2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$
Sep-03	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Oct-03	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Nov-03	5	\$0,381,380	\$2,095,345	\$0,381,380	\$0	\$0	\$0	\$0,381,380	\$0,381,380	\$2,095,345	\$2,095,345	\$2,095,345	
Dec-03	6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Jan-04	7	\$0,381,380	\$2,095,345	\$0,381,380	\$0	\$0	\$0	\$0,381,380	\$0,381,380	\$2,095,345	\$2,095,345	\$2,095,345	
Feb-04	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Mar-04	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Apr-04	10	\$0,986,700	\$1,495,675	\$0,986,700	\$0	\$0	\$0	\$0,986,700	\$0,986,700	\$1,495,675	\$1,495,675	\$1,495,675	
May-04	11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Jun-04	12	\$0	\$0	\$239,468	\$0	\$0	\$0	\$239,468	\$239,468	\$0	\$0	\$239,468	FY04
Jul-04	13	\$7,184,040	\$1,795,010	\$1,199,734	\$0	\$0	\$0	\$7,303,774	\$7,303,774	\$1,795,010	\$1,795,010	\$9,098,784	
Aug-04	14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Sep-04	15	\$5,986,700	\$1,495,675	\$1,199,734	\$0	\$0	\$0	\$6,108,434	\$6,108,434	\$1,495,675	\$1,495,675	\$7,604,109	
Oct-04	16	\$3,592,020	\$996,005	\$1,199,734	\$0	\$0	\$0	\$5,711,754	\$5,711,754	\$996,005	\$996,005	\$6,707,759	
Nov-04	17	\$0	\$0	\$239,468	\$0	\$0	\$0	\$239,468	\$239,468	\$0	\$0	\$239,468	
Dec-04	18	\$0	\$0	\$239,468	\$0	\$0	\$0	\$239,468	\$239,468	\$0	\$0	\$239,468	
Jan-05	19	\$1,840,040	\$1,795,010	\$419,069	\$0	\$0	\$0	\$7,603,108	\$7,603,108	\$1,795,010	\$1,795,010	\$9,398,118	
Feb-05	20	\$0	\$0	\$778,271	\$0	\$0	\$0	\$778,271	\$778,271	\$0	\$0	\$778,271	
Mar-05	21	\$0	\$0	\$359,202	\$0	\$0	\$0	\$359,202	\$359,202	\$0	\$0	\$359,202	
Apr-05	22	\$3,592,020	\$996,005	\$359,202	\$0	\$0	\$0	\$3,951,222	\$3,951,222	\$996,005	\$996,005	\$4,947,227	
May-05	23	\$4,795,360	\$1,197,340	\$359,202	\$0	\$0	\$0	\$5,149,562	\$5,149,562	\$1,197,340	\$1,197,340	\$6,346,902	
Jun-05	24	\$0	\$0	\$1,317,073	\$0	\$0	\$0	\$1,317,073	\$1,317,073	\$0	\$0	\$1,317,073	FY05
Jul-05	25	\$0	\$0	\$1,137,473	\$0	\$0	\$0	\$1,137,473	\$1,137,473	\$0	\$0	\$1,137,473	
Aug-05	26	\$0	\$0	\$1,915,744	\$0	\$0	\$0	\$1,915,744	\$1,915,744	\$0	\$0	\$1,915,744	
Sep-05	27	\$0	\$0	\$2,125,278	\$0	\$3,628,468	\$907,117	\$5,544,212	\$5,544,212	\$907,117	\$907,117	\$6,451,329	
Oct-05	28	\$0	\$0	\$2,304,879	\$119,734	\$0	\$0	\$2,125,278	\$2,304,879	\$119,734	\$119,734	\$2,424,613	
Nov-05	29	\$1,973,400	\$2,893,350	\$478,936	\$0	\$0	\$0	\$14,008,877	\$14,008,877	\$3,472,298	\$3,472,298	\$17,481,175	
Dec-05	30	\$4,799,360	\$1,197,340	\$2,125,277	\$0	\$0	\$0	\$6,914,637	\$6,914,637	\$1,676,278	\$1,676,278	\$8,590,915	
Jan-06	31	\$0	\$0	\$1,945,676	\$119,734	\$0	\$0	\$1,945,676	\$1,945,676	\$119,734	\$119,734	\$2,065,410	
Feb-06	32	\$0	\$0	\$2,634,147	\$0	\$0	\$0	\$2,634,147	\$2,634,147	\$0	\$0	\$2,634,147	
Mar-06	33	\$0	\$0	\$2,893,482	\$0	\$0	\$0	\$2,893,482	\$2,893,482	\$0	\$0	\$2,893,482	
Apr-06	34	\$0	\$0	\$2,893,482	\$0	\$0	\$0	\$2,893,482	\$2,893,482	\$0	\$0	\$2,893,482	
May-06	35	\$0	\$0	\$3,143,017	\$0	\$0	\$0	\$3,143,017	\$3,143,017	\$0	\$0	\$3,143,017	
Jun-06	36	\$0	\$0	\$2,893,416	\$0	\$3,628,468	\$907,117	\$5,771,486	\$5,771,486	\$179,601	\$179,601	\$5,951,087	FY06
Jul-06	37	\$0	\$0	\$2,424,613	\$718,404	\$0	\$0	\$2,424,613	\$2,424,613	\$718,404	\$718,404	\$3,143,017	
Aug-06	38	\$0	\$0	\$2,155,212	\$1,197,340	\$0	\$0	\$2,155,212	\$2,155,212	\$1,197,340	\$1,197,340	\$3,352,552	
Sep-06	39	\$0	\$0	\$1,886,812	\$927,937	\$0	\$0	\$1,886,812	\$1,886,812	\$927,937	\$927,937	\$2,814,749	
Oct-06	40	\$0	\$0	\$1,796,012	\$588,668	\$0	\$0	\$1,796,012	\$1,796,012	\$588,668	\$588,668	\$2,384,680	
Nov-06	41	\$0	\$0	\$1,796,012	\$269,400	\$0	\$0	\$1,796,012	\$1,796,012	\$269,400	\$269,400	\$2,065,412	
Dec-06	42	\$0	\$0	\$1,796,012	\$0	\$0	\$0	\$1,796,012	\$1,796,012	\$0	\$0	\$1,796,012	
Jan-07	43	\$0	\$0	\$1,796,012	\$0	\$0	\$0	\$1,796,012	\$1,796,012	\$0	\$0	\$1,796,012	
Feb-07	44	\$0	\$0	\$888,008	\$888,008	\$0	\$0	\$888,008	\$888,008	\$888,008	\$888,008	\$1,776,016	
Mar-07	45	\$0	\$0	\$478,936	\$1,317,076	\$0	\$0	\$478,936	\$478,936	\$1,317,076	\$1,317,076	\$1,796,012	
Apr-07	46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
May-07	47	\$0	\$0	\$657,872	\$0	\$0	\$0	\$657,872	\$657,872	\$0	\$0	\$657,872	
Jun-07	48	\$0	\$0	\$1,915,744	\$1,915,744	\$0	\$0	\$1,915,744	\$1,915,744	\$0	\$0	\$3,831,488	FY07
TOTALS		\$71,840,400	\$17,860,100	\$47,893,800	\$11,973,400	\$7,256,937	\$1,814,234	\$126,980,937	\$126,980,937	\$31,747,734	\$31,747,734	\$158,739,671	9/22 2003

**CHANGE CONTROL STATUS**

Description	A	B		C		D=A+B+C	E		F=D+E
	Award Amount	Approved		Obligated		Total Approved Amount	Potential		Total Potential Value
		Executed Changes		LNTPs (NTE)			Pending		
		#	\$	#	\$		#	\$	
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	0	0	0	0	0	0	0	0	0

There are no Changes this reporting period.

**FINANCIAL/GRANT STATUS**

SOURCE	in \$ millions									
	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)	
	ORIGINAL BUDGET	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS \$	%	EXPENDITURES \$	%	BILLED to SOURCE \$	FUNDING SOURCE %	
FEDERAL - STIP	40.0	40.0	0.0	40.0	100%	0.0	0%	0.0	0%	
FED-SEC 5309 FIXED GUIDEWAY	38.4	38.4	0.0	38.4	100%	0.0	0%	0.0	0%	
FEDERAL - RSTP/CMAQ	7.7	7.7	0.0	4.5	58%	0.0	0%	0.0	0%	
STATE STIP	51.3	51.3	0.0	51.3	100%	0.0	0%	0.0	0%	
STATE STA	15.5	15.5	0.0	15.5	100%	0.0	0%	0.0	0%	
UNBILLED ACRUALS			0.5			0.5				
<b>TOTAL</b>	<b>152.9</b>	<b>152.9</b>	<b>0.5</b>	<b>149.7</b>	<b>98%</b>	<b>0.5</b>	<b>0%</b>	<b>0.0</b>	<b>0%</b>	

(1) Based on June 2003 Regional Programming Funding Plan.  
 Note: Expenditures are cumulative through August 2003.  
 The 2550 Rail Vehicle Program consists of 40 light rail vehicles and associated costs.

**STATUS OF FUNDS ANTICIPATED**

**STATE STIP:** At the August 2003 California Transportation Commission (CTC) Meeting, the CTC did not act on the \$17.5 million funding allocation requested by MTA. This request has been added to the STIP pending allocation list and most likely will not be approved until the federal budget for FY 04 is passed.

**FEDERAL SECTION 5309:** MTA submitted a grant application of \$10,750,000 to the FTA in May 2003. MTA is expecting environmental clearance in September 2003 prior to formal submittal of the grant.

## **APPENDIX COST AND BUDGET TERMINOLOGY**

**COMMITMENTS:** The total of actual contract awards, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other LACMTA actions that will result in specific expenditures at a future time.

**INCURRED COST:** The total value of work performed to date of services received, and acquired materials or properties.

**EXPENDITURES:** The total dollar amount of checks written by LACMTA's Accounting department for contractor or consultant invoices, third party invoices, staff salaries, and closing payments for escrow accounts that is reported in LACMTA's Financial Information System (FIS).

**CONSTRUCTION:** Includes guideways, yards and shops, systems equipment, stations, and vehicles.

**PROFESSIONAL SERVICES:** Includes general engineering, construction management services, consultant design support services during construction, legal counsel, and agency (MTA staff) costs.

**CONTINGENCY:** A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the project.

**SPECIAL CONDITIONS:** Includes utilities relocation, environmental compliance and mitigation, master cooperative agreements, insurance program, artwork, systems integration testing and pre-revenue operations.

**APPENDIX  
LIST OF ACRONYMS**

CMAC	Congestion Mitigation Air Quality
CN	Change Notice
CO	Change Order
CTC	California Transportation Commission
ESGL	Eastside Gold Line
FTA	Federal Transit Administration
FY	Fiscal Year
LNTP	Limited Notice To Proceed
LRV	Light Rail Vehicle
MTA	Metropolitan Transportation Authority
N/A	Not Applicable
NTE	Not to Exceed
NTP	Notice To Proceed
PGL	Pasadena Gold Line
QPSR	Quarterly Project Status Report
SSPP	System Safety Program Plan
STIP	State Transportation Improvement Program
TBD	To Be Determined