



PROJECT: VEHICLE ACQUISITION PROJECT

**CONTRACT: P2000, LOS ANGELES STANDARD LIGHT RAIL
VEHICLE, SIEMENS TRANSPORTATION SYSTEMS, INC.**

**ACTION: CONTRACT MODIFICATION IN THE CREDIT
AMOUNT OF \$337,800**

Metropolitan
Transportation
Authority

One Gateway Plaza
Los Angeles, CA
90012-2952

RECOMMENDATION

Authorize the Chief Executive Officer to execute Change Order No. 18 to Contract No. P2000, Los Angeles Standard Light Rail Vehicle, with Siemens Transportation Systems, Inc., to delete the requirement for the vehicle between car warning devices, in the credit amount of \$337,800, decreasing the Total Contract Value from \$214,344,337 to \$214,006,537.

Within Construction Committee authority: Yes No N/A

BACKGROUND

One of the requirements of the P2000 specification was that the vehicles be equipped with between-car protective devices. This was to comply with the Americans with Disabilities Act (ADA) of 1990, which mandates that protective devices be provided for vehicles which operate in high level loading configurations. The devices are intended to minimize the possibility of disabled or handicapped patrons falling off the platforms into the space between coupled cars. Appropriate devices include, but are not limited to, pantograph gates, chains, motion detectors, or other suitable devices.

For the P2000 Vehicles, the MTA, in 1992, determined that this function was to be performed by an audible warning device consisting of motion detectors and audible warnings which were included in the original specification. In early 1997, an MTA interdivisional ADA Task Force studied various alternatives to determine the best method to satisfy the ADA requirements and to provide system uniformity on all three MTA existing rail lines and new stations under construction. One of its findings concluded that it would be extremely costly to retrofit and maintain audible warning devices on the existing fleet of vehicles. In addition, such warning devices would not prevent a person from falling off the edge of the platform.

Even though its study was not yet completed, the Task Force recommended that the audible between-car warning device be removed from the P2000 contract. This recommendation was approved by the Interim Chief Executive Officer on May 14, 1997.

The contractor was immediately advised to stop all work on the between-car warning device and to submit a proposal for deletion of the requirement.

Currently, the MTA ADA Compliance Task Force is testing a new and different type between car barrier design which was the subject of a Board Box Item distributed to the Board of Directors on March 15, 2002.

FINANCIAL IMPACT

Original Contract Award	\$215,370,314
Current Cumulative Contract Value	\$214,344,337
This Action	(\$337,800)
Net Cumulative contract Value	\$214,006,537

This recommended action will decrease the P2000 Total Contract Value by \$337,800, which amount will remain in the project budget. The current status of the contract, including the impact of the recommended action, is shown in Attachment 1. The recommended action does not affect the Fiscal Year Budget or the Sources of Funds, either in fiscal year or over the life of the project.

Potential for Cost Recovery: Yes No N/A

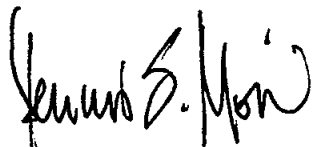
ALTERNATIVES CONSIDERED

MTA Board may reject this change, but denial of this change would prevent the MTA from receiving the credit amount due under the Contract. Staff does not recommend this alternative.

ATTACHMENTS

- Attachment 1: Contract Value Status Summary
- Attachment A: Procurement Summary
- Attachment A-1: Procurement History
- Attachment A-2: List of Subcontractors

Prepared By: Ben Nahid, Engineering Project Manager, Vehicles
Tom Butler, Contract Administrator



Dennis S. Mori
Interim Executive Officer, Construction



Roger Snoble
Chief Executive Officer

**ATTACHMENT 1
CONTRACT VALUE STATUS SUMMARY**
RCL LOS ANGELES RAIL VEHICLE PROCUREMENT (800150)
CHANGE ORDER P2000-C0-18.00

Only shows cost allocated to RCL

CONTRACTOR: SIEMENS TRANSPORTATION SYSTEMS / LA STANDARD LIGHT RAIL VEHICLES
ACTION DESCRIPTION: DELETION OF BETWEEN CAR WARNING DEVICE

CUMULATIVE CONTRACT WORK ORDER VALUE STATUS

1.	CUMULATIVE AWARD AMOUNT:[1]	\$215,370,314.00	(Includes \$0.00 in Planned Scope Amendments)
2.	PREVIOUSLY EXECUTED CHANGES:	(\$1,025,977.00)	
3.	CURRENT VALUE: (1+2)	\$214,344,337.00	
4.	AUTHORIZED WAC/LNTP'S (NTE):	\$0.00	
5.	OBLIGATED VALUE: (3+4)	\$214,344,337.00	
6.	VALUE OF THIS ACTION:	(\$337,800.00)	
7.	NEW VALUE (IF APPROVED): (5+6)	\$214,006,537.00	

Contract Work Order Value Status Reviewed by MTA Procurement: *Travis Tom Butler*

CUMULATIVE AUTHORIZATION FOR EXPENDITURE STATUS		AFE INCREASE REQUIRED/REQUESTED:	
8.	MTA APPROVED AFE:	\$236,957,644.00	
9.	NEW VALUE: (Line 7)	\$214,006,537.00	
10.	REMAINING AFE: (8-9)	\$22,951,107.00	\$0.00 For this action
11.	OTHER PENDING CHANGES (merited)	(\$33,278,197.17)	
12.	REMAINING AFE VALUE (w/Changes: 10-11)	\$56,229,304.17	\$0.00 For all merited changes (projected cost)
13.	ALLOWANCE FOR OTHER POTENTIAL CHANGES:	\$0.00	
14.	REMAINING AFE VALUE (w/Allowance: 12-13)	\$56,229,304.17	\$0.00 For all merited and undefined changes

CUMULATIVE BUDGET STATUS		BUDGET VARIANCE (Initial to Current)	
15.	INITIAL BUDGET: (PBCR # 0 , 5/25/94) [2]	\$231,970,491.00	
16.	CURRENT BUDGET:	\$231,970,491.00	\$0.00 Initial to Current Budget
17.	NEW VALUE (IF APPROVED): (Line 7)	\$214,006,537.00	
18.	REMAINING BUDGET: (16-17)	\$17,963,954.00	
19.	OTHER PENDING CHANGES (merited) (Line 11)	(\$33,278,197.17)	
20.	REMAINING BUDGET w/Changes (18-19)	\$51,242,151.17	

Contract Budget Status Reviewed by MTA Program Control: *Steven LeBlond* DATE: *2/13/02*

[1] - Award Amount includes initial award and Planned Scope Amendments
[2] - PBCR = Project Budget Change Request
ATTACHMENT 1: Allocated Contract Data
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**BOARD REPORT ATTACHMENT A
PROCUREMENT SUMMARY**

**P2000, Los Angeles Standard Light Rail Vehicle
Siemens Transportation Systems, Inc.**

1.	Contract No.: P2000 Change Order No. 18		
2.	Recommended Vendor:		
	Name: Siemens Transportation Systems Inc.	City: Sacramento, CA	
3.	Cost/Price Analysis Information:		
	A. Proposed Price: \$208,127 Credit	Recommended Price: \$337,800 Credit	Independent Estimate: \$337,800 Credit
	Audit or Cost/Price Analysis: \$337,800 Credit		
	B. Explanation of Significant Variances: Not Applicable		
4.	Historical Amount: Not Applicable		
5.	Contract Type: Firm Fixed Price		
6.	Procurement Dates:		
	A. Issued: Not Applicable		
	B. Advertised: Not Applicable		
	C. Pre-proposal Conference: Not Applicable		
	D. Proposals Due: Not Applicable		
	E. Pre-Qualification Completed: Not Applicable		
	F. Conflict of Interest Form Submitted to Ethics: 2/4/02		
7.	Small Business Participation:		
	A. %Goal in RFP: See Attachment A-2	Date Small Business Evaluation Completed: February 2002	
	B. Contractor Commitment: See Attachment A-2		
8.	Request for Proposal Information:		
	# Notifications Sent: Not Applicable	# Proposals Picked up: Not Applicable	# Proposals Received: Not Applicable
9.	Evaluation Information:		
	A. Listing of Proposers: Vendor Name: Siemens Transportation Systems Inc	Proposal Amount: (\$208,127)	BAFO Amount: Not Applicable
	Evaluation Methodology: Best Value (see Attachment A-1.C)		
4.	Protest Information:		
	A. Date Protest Period Ends: Not Applicable		
	B. Date Protest Received: Not Applicable		
	C. Disposition of Protest & Date: Not Applicable		
5.	Contract Administration Mgr: Tom Butler	Telephone No.: 922-7312	
6.	Project Manager: Joel Sandberg	Telephone No.: 922-7223	

**BOARD REPORT ATTACHMENT A-1
PROCUREMENT HISTORY**

**P2000, LOS ANGELES STANDARD LIGHT RAIL VEHICLE
SIEMENS TRANSPORTATION SYSTEMS INC.**

A. Background on Contractor

The Siemens Group of companies is an international leader in electrical engineering and electronics, ranking twenty-fourth on the Fortune 500 list of global companies. They are over 150 years old with sales of \$66 Billion.

Siemens Transportation Systems, Inc. is headquartered in Sacramento, California. It is a world leader in the transportation industry and is the U.S. subsidiary of the worldwide Transportation Systems Division of Siemens. The Vehicle Division of Siemens Transportation Systems Inc. is also located in Sacramento, California, and is the Siemens entity which is currently manufacturing the light rail vehicles for the MTA under the P2000 contract.

The Vehicle Division of Siemens Transportation Systems, Inc. has manufactured and delivered light rail vehicles for transit authorities in San Diego, Denver, Salt Lake City, St Louis, Portland, and Venezuela over the past 10 years.

To date, the P2000 contract is the first and only light rail vehicle contract that the MTA has issued to Siemens. Delivery of the P2000 Vehicles is continuing and 26 vehicles have been conditionally accepted and are in revenue service. The remaining 26 cars are expected to be delivered and accepted by the end of 2002.

B. Procurement Background

Contract No. P2000 is a fixed price, federally funded procurement. The scope of work consists of designing, manufacturing, inspecting, and delivering fifty two (52) light rail vehicles.

On July 28, 1993, Contract No. P2000, Los Angeles Standard Light Rail Vehicle, was awarded to Siemens Transportation Systems, Inc., previously Siemens Duewag Corporation, in the amount of \$215,370,314. The Notice to Proceed was issued on February 25, 1994 with a completion date of October 31, 1998.

C. Evaluation of Proposals

The MTA Project Office, Office of Procurement and County Counsel have reviewed the facts underlying this change and concur that it has been merited under the terms and conditions of the Contract and the Public Utilities Code, Section 130243. The MTA Management Audit Service Department (MASD) has completed the required audit of this Change Order and all outstanding issues have been resolved.

D. Cost/Price Analysis Explanation of Variances

Proposed Credit (\$208,127)	MTA Estimate (\$337,800)	Negotiated Amount (\$337,800)
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The recommended credit amount of \$337,800 has been determined to be fair and reasonable based upon fact-finding, clarifications, cost analysis, and a pre-award audit performed by Management Audit Services Department (MASD). The recommended credit amount is \$129,673 greater than the contractor's original proposed amount of \$208,127.

**BOARD REPORT ATTACHMENT A-2
LIST OF SUBCONTRACTORS**

**P2000, LOS ANGELES STANDARD LIGHT RAIL VEHICLE
SIEMENS TRANSPORTATION SYSTEMS INC.**

Prime Contractor: Siemens Transportation Systems, Inc.

Subcontractors:

Bombardier Transportation (Holdings) USA Inc.
1501 Lebanon Church Road
Pittsburgh, PA 15236

Coach and Car Equipment
Corporation
1951 Arthur Ave.
Elk Grove, Illinois 60007

Duewag AG
Koenigsbeager Strasse 100
4000 Duesseldorf, Germany

Envitech Automation Inc.
180 Brunswick, Pointe-Claire
QC Canada, H9RSPP9

Luminator Mass Transit Products
Plano, Texas

Lundahl Instruments Inc.
429 So. Main
Logan, Utah 84321

Sutrak Air Conditioning
6899 E. 49th Avenue
Commerce City, Co 80022

WABCO Transit Division
Spartanburg, S.C.29304-0011

Small Business Participation

This Contract (vehicle portion only) has a 20.09% Disadvantaged Business Enterprise (DBE) participation goal. Current DBE attainment¹ based on the current contract amount² is 15.65%. Current DBE participation³ based on total actual amount paid-to-date to Contractor and total actual amount paid-to-date to DBEs is 28.28%.

When the reduction of the current contract amount² is established at Contract close out, the Prime is expected to meet the DBE goal. Fifty-two (52) DBE firms have been involved with this contract. There were thirty-three (33) originally listed DBE subcontractors on the contract, of which thirteen (13) were substituted and

seven (7) withdrew. Siemens has demonstrated efforts to maximize DBE participation with the addition of nineteen (19) DBE subcontractors.

Original Award Amount	\$	215,370,314
Current Contract Amount²	\$	214,344,337
Total Actual Amount Paid to Date to Prime	\$	118,629,774

¹Current Attainment = Total Actual Amount Paid-to-Date to Subs ÷ Total Relevant Contract Amount

²Current Contract Amount = Original Contract Value + Contract Cost Modifications affecting DBE or SBE Scope of Work

³Current Participation = Total Actual Amount Paid-to-Date to Subs ÷ Total Actual Amount Paid-to-Date to Prime

Subcontractor	Commitment	Current Attainment	Current Participation	Current Status
AVW Electronics System	0.36 %	0.00 %	0.00 %	Substituted
Alameda Group	0.07 %	0.00 %	0.00 %	Substituted
American Sein Pro	1.48 %	0.05 %	0.12 %	Performing
Artcraft Industries	0.78 %	0.00 %	0.00 %	Substituted
Askeland Corporation	0.38 %	0.00 %	0.00 %	Substituted
Automotive Products	0.06 %	0.00 %	0.00 %	Withdrawn
Baszile Metals Service	0.01 %	0.00 %	0.00 %	Substituted
Cordoba Corporation	2.85 %	2.40 %	4.35 %	Complete
Dependable Machine	0.00 %	0.00 %	0.00 %	Substituted
Dumont Electrical	0.01 %	0.00 %	0.00 %	Substituted
ETA Technologies	0.33 %	0.02 %	0.04 %	Complete
Electro Wire Inc.	0.01 %	0.00 %	0.00 %	Substituted
Electro Optek Corporation	0.08 %	0.00 %	0.00 %	Withdrawn
Fuji Electrical Components	0.01 %	0.00 %	0.00 %	Substituted
Gainey Tool and Machine	0.00 %	0.00 %	0.00 %	Withdrawn
Gupta Permold	1.91 %	2.00 %	3.46 %	Exceeded / Complete
Hart and Sons	0.03 %	0.00 %	0.00 %	Withdrawn
I/O Controls	0.16 %	0.00 %	0.00 %	Withdrawn
Kormex Metalkraft	0.04 %	0.00 %	0.00 %	Substituted
Langley Traffic Services	0.01 %	0.00 %	0.01 %	Complete
Power Energy Industries	0.02 %	0.00 %	0.00 %	Substituted
Power Rail Corporation	2.53 %	1.62 %	2.96 %	Performing
Protech Metals	0.01 %	0.00 %	0.00 %	Substituted
Quality Fabricating	0.06 %	0.01 %	0.02 %	Performing
Royal Coach Autobody	0.16 %	0.00 %	0.00 %	Withdrawn
SCIC	1.03 %	0.00 %	0.00 %	Withdrawn
Top Tempo	3.50 %	4.84 %	8.77 %	Exceeding
TransEd	0.47 %	0.12 %	0.23 %	Substituted
Trost Sheet Metal Works	0.02 %	0.01 %	0.02 %	Performing
Tubular Specialties	0.11 %	0.10 %	0.18 %	Performing
Virginia Transformer	0.19 %	0.07 %	0.14 %	Performing
WG Enterprises	0.18 %	1.12 %	2.04 %	Performing
Warner Aircraft	3.70 %	0.06 %	0.10 %	Complete
Alston Machine	N/A	0.00 %	0.01 %	Performing

B&B International	N/A	0.64 %	1.16 %	Performing
Brian NG Engineering	N/A	0.20 %	0.36 %	Complete
Czechmate Lumber	N/A	0.34 %	0.61 %	Performing
Ehmer Production Machine	N/A	0.01 %	0.01 %	Performing
Gardner Consulting	N/A	0.39 %	0.71 %	Complete
Gas Systems & Service	N/A	0.06 %	0.11 %	Performing
Goyal Industries	N/A	0.09 %	0.16 %	Performing
Jenkins/Gales/Martinez	N/A	0.00 %	0.01 %	Performing
J. L. Haley Enterprises	N/A	0.72 %	1.30 %	Performing
KLI Inc.	N/A	0.01 %	0.01 %	Performing
Lin Industries	N/A	0.16 %	0.28 %	Performing
Microphor Inc	N/A	0.02 %	0.04 %	Performing
Motive Corp	N/A	0.19 %	0.34 %	Performing
Ron Nunes Enterprises	N/A	0.10 %	0.18 %	Performing
Total Metal Products	N/A	0.04 %	0.07 %	Performing
TTA Manufacturing	N/A	0.09 %	0.17 %	Performing
Your Travel Agent	N/A	0.01 %	0.03 %	Performing
Sigma-Tech Int. Co.	N/A	0.16 %	0.28 %	Performing
TOTAL	20.09 %	15.65 %	28.28 %	Expected to Meet the Goal