

Public Transportation Modernization, Improvement & Service Enhancement Program (PTMISEA)

Final Project Report

Per G.C. 8879.50 (f)(2) "Within six months of the project becoming operable the recipient agency shall provide a report to the administrative agency . . ." Please provide the following information:

Fiscal Year : FY 2007-08  
 PTMISEA Cycle : Cycle 2  
 Project Sponsor : San Francisco Municipal Transportation Agency  
 Contributing PTMISEA Sponsor : San Francisco Municipal Transportation Agency  
 Project Name : Automated Passenger Counter Equipment

**Project Scope**

Original Application	Final Project
Procurement of automatic passenger counters (APC) equipment on SFMTA's revenue fleet to gather ridership information. The APCs are small units mounted at each side of the vehicle door. These APCs emit light beams, which are broken when a person alights or departs. Using GPS, a small computer on board the vehicle notes the time and location of the vehicle when the doors open. The on-board computer stores this ridership data, which is wirelessly transferred to a computer for analysis. The data provided by the APCs include boardings and alightings at each stop, load factor at each stop, on-time performance at each time point, running time between time points, the number and location of each wheel chair lift and bike rack use, total ridership on the trip, passenger miles, and average length of each passenger trip. Wiring, sensors, and central processing units on the SFMTA's fleet will be installed, as well as purchasing demonstration units from various vendors to be tested on the SFMTA's different modes of revenue vehicles as necessary. The total number of APCs purchased and installed will vary depending on the success of demonstration projects and the specific vehicle mode.	The installation of automatic passenger counters (APC) equipment on 240 vehicles was completed. The APCs are small units mounted at each side of each door of a vehicle. These APCs emit light beams, which are broken when a person alights or departs. Using GPS, a small computer on board the vehicle notes the time and location of the vehicle when the doors open. The on-board computer stores this ridership data, which is wirelessly transferred to a computer for analysis. The data provided by the APCs include boardings and alightings at each stop, load factor at each stop, on-time performance at each time point, running time between time points, the number and location of each wheel chair lift and bike rack use, total ridership on the trip, passenger miles, and average length of each passenger trip. Wiring, sensors, and central processing units on the SFMTA's fleet will be installed, as well as purchasing demonstration units from various vendors to be tested on the SFMTA's different modes of revenue vehicles as necessary.
Original Approved Project Cost	Final Project Cost
99313 :	
99314 :	\$1,199,311
PTMISEA Interest :	\$1,689
Other Funds	
Federal :	
State :	
Local :	
<b>Total Project Cost :</b>	<b>\$2,501,689</b>
Original Project Schedule	Final Project Schedule
Begin Environmental :	
End Environmental :	
Begin Design :	
End Design :	
Begin Right of Way :	
End Right of Way :	
Begin Construction :	4/2008
End Construction :	3/2009
Begin Vehicle/Equipment Order :	
End Vehicle/Equipment Order :	
Begin Closeout Phase :	4/2009
End Closeout Phase :	10/2009
Anticipated Performance Outcome	Actual Performance Outcome
APC's will enable the collection of large amount of ridership data required to improve on-time performance, developing reliable schedules, making service planning adjustments and addressing service delivery issues.	The APC system is currently used by service planners to collect and analyze ridership data and plan transit service for various lines. It has improved Garage Schedule Adherence by 5%, reduced unproductive trips by 10% and reduced actual end-of-line dwell times by 20%.

Performance Outcomes  
 Description/Improvement  
 Percentages

Signature:

Name and Title

Date

Please include verification of the project completed as scoped by providing evidence of completion such as a photo and/or invoice of acquisition. (See attached Master Log and photos)

Note: The same authority that signed the Allocation Request or is designated on the Authorized Agent form must sign here.

Revised