

8/18/2017

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: PTMISEA-Interest

PTMISEA Cycle:

Project Sponsor: San Francisco Municipal Transportation Agency

Contributing PTMISEA Sponsor: N/A

Project Name: LRV Propulsion System Campaign

	Original Application	Final Project
	The LRV Propulsion System Campaign will	All subsystems in the propulsion system that
	target critical components in SFMTA's Light	were scheduled for replacement have been
	Rail Vehicles (LRVs) to improve the reliability of	replaced successfully. This includes the main
	the propulsion system, which in its present	inverter blower motor, auxiliary power system
	condition is responsible for 28 percent of rail-	equipment blower motor, traction motor speed
	line delays. The campaign will replace	sensor wire harness, traction motor leads car
	subsystems of the propulsion system on 149	body side, and GTO control board
	Breda LRVs, including the main inverter blower	components. These propulsion systems had exceeded the manufacturer's recommended
	motor, auxiliary power system equipment blower motor, traction motor speed sensor wire	useful life.
	harness, traction motor leads car body side,	userur ille.
Project Scope	and GTO control board components. The	
	propulsion system is the system that makes the	
	LRV move and there is one propulsion system	
	per LRV. The current propulsion systems have	
	exceeded the manufacturer's recommendation	
	for replacement and exceed their useful lives.	
	The campaign will replace five subsystems of	
	the propulsion system, repair welding, and	
	execute equipment quality assurance	
	inspections.	
<u>Funding</u>	Original Approved Project Cost	Final Project Cost
99313 :		1
99314 :		
PTMISEA Interest :	\$600,000	\$600,000
Other Funds		
Federal/State :	\$4,630,000	\$3,889,869
Local :	ψ+,000,000	\$0,000,000
Total Project Cost :	\$5,230,000	\$4,489,869
Schedule Date	Original Project Schedule	Final Project Schedule
Begin Environmental :		
End Environmental :		
Begin Design :		
End Design :		
_		
Begin Right of Way:		
End Right of Way :	- 10	
Begin Construction:		10/1/15
End Construction :	12/31/16	12/31/16
Begin Vehicle/Equipment Order:		
End Vehicle/Equipment Order:		
Begin Closeout Phase:	1/1/16	1/31/17
End Closeout Phase :	6/30/16	9/30/17
	Anticipated Performance Outcome	Actual Performance Outcome
	Replacement of the propulsion system in 149	
	Breda LRVs and a reduction in rail line delays	With the replaced propulsion systems, MUNU
Performance Outcomes	due to breakdowns of aging equipment.	With the replaced propulsion systems, MUNI LRVs are now breaking down after greater
Description/Improvement		distances. Mean distance between
Percentages	1	breakdowns is about 2000 miles greater than
	1	before.
	1	Increased Ridership by 2%
	i	Reduced Oper/Maint Cost by 2%
		Reduced Emissions by 2%
. ^		Increased System Reliability by 5%
ignature:		

Signat

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.

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