

Fixed Location Train Detection and Worker Warning System

TIP ID	40-1702-64	Year of Operation	2017
Agency	MTA - Transit	Project Type	Preservation and improvements
Project Category	Transit	Functional Class	NA
Conformity Status	Exempt	Physical Data	NA
CIP or CTP ID(s)	TBD	Est. Total Cost	\$2,990,000

Description:

This project will install a fixed deployment application of a system (ZoneGuard) along the entire length of the MTA Light Rail line as part of a study that will analyze the effectiveness of such a system. The study will test the proof-of-concept of an electronic secondary warning system that warns work crews on the track of approaching Light Rail vehicles and railroad maintenance machines. The implementation will be Light Rail system-wide throughout the study and will remain for MTA use at its conclusion.

Included in matching funds is \$18,000 from the State of New York to assist in the costs of implementation and the sharing of information.

Justification:

Implementing the ZoneGuard fixed system will enhance the safety of track workers by notifying them of approaching Light Rail vehicles. When workers are within close proximity to the track and have the potential to be struck by a moving train or on-track equipment, tight headways are not conducive to setting up a portable system. In high population areas that are not permanently fixed out of the reach of the public, a portable setup may lend itself to vandalism and theft. In addition, portable setups may be too cumbersome to carry and setup regularly and over long distances.

Connection to Long-Range Transportation Planning Goals:

- 1.B Improve System Safety -- Apply safety-related management and operations techniques.
- 2.E Improve and Maintain the Existing Infrastructure -- Improve the condition of transit infrastructure and stations/stops.





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(Funding in Thousands)

Section 5312 (Research, Development, Demonstration, and Deployment Projects)

Phase	FY 2017 Federal Funds	FY 2017 Matching Funds	FY 2018 Federal Funds	FY 2018 Matching Funds	FY 2019 Federal Funds	FY 2019 Matching Funds	FY 2020 Federal Funds	FY 2020 Matching Funds	Total Four-Year Funding Request
CON	\$688	\$2,302	\$0	\$0	\$0	\$0	\$0	\$0	\$2,990
OTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal	\$688	\$2,302	\$0	\$0	\$0	\$0	\$0	\$0	\$2,990
Total	\$688	\$2,302	\$0	\$0	\$0	\$0	\$0	\$0	\$2,990