

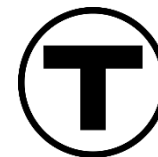


**Massachusetts Bay
Transportation Authority**

Commuter Rail Positive Train Control

MBTA Contract No. X60PS02 PTC Technical Support Services

July 31, 2017



Overview

- Contract with LTK Engineering Services (LTK) to provide Positive Train Control Technical Support services for an amount not-to-exceed \$6,954,338.





Positive Train Control

- The Rail Safety Improvement Act (RSIA) of 2008 defines a PTC System as a system designed to prevent:
 - Train-To-Train Collisions
 - Over Speed Derailments
 - Incursions Into Established Work Zone Limits
 - Movement of Trains Through Track Switches That May Have Been Left In the Incorrect Position
- All PTC Systems are generally comprised of the same components:
 - An On-Board Apparatus for the Locomotive controlling each applicable train
 - Wayside devices, such as Wayside Interface Units (WIUs)
 - A centralized dispatch system (Back Office)
 - A communication system linking all components



Regulatory Schedule

- Legal deadline for PTC implementation is December 31, 2018.
- DOT/FRA can grant an additional 24 months (to December 31, 2020) to have PTC fully operational provided the MBTA meets certain criteria, including the installation of all PTC hardware by September 2018.
- A PTC Implementation Plan has been submitted to the FRA which provides for installation of hardware on all Commuter Rail lines and two pilot lines (Stoughton Line and Lowell Line) by the end of 2018, with full PTC implementation by December 31, 2020.
- FRA has the authority to assess penalties (up to \$105K/day) if new statutory deadlines are not met.



Background

- LTK supported the MBTA throughout the PTC Systems Integrator procurement process, including support preparing the SI Request for Proposal, and technical review throughout the SI selection process.
- LTK supported the MBTA as part of a Program Management and Technical Support Services Team. The Prime contract for these services expired on July 27, 2017.
- To maintain continuity in professional technical services to support the delivery of the PTC Program, the MBTA seeks to contract with LTK to support the PTC program through final PTC implementation (December 31, 2020). LTK holds unique PTC knowledge and project specific experience, brings considerable value to the Project, the negotiated cost is fair and reasonable and award of the contract to LTK is in the best interest of the MBTA.



Request of the Fiscal and Management Control Board

Staff request that the Fiscal and Management Control Board authorize the Acting General Manager to award and execute MBTA Contract X60PS02: **Technical Support Services for Commuter Rail Positive Train Control** with LTK Engineering Services for an amount not to exceed \$6,954,338.

