



**Massachusetts Bay
Transportation Authority**

Locomotive Procurement

Presenter: William G. Wolfgang

Senior Director of Vehicle Engineering

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Overview and Project Goals

The MBTA has identified an immediate need for new locomotives.

This new contract includes:

- Ten (10) Tier 4 Diesel-electric Locomotives
- Ten (10) Dual Mode Battery/Catenary Locomotives

Objectives:

Reduce Local Emissions

- EPA Tier 4 Diesel Emissions Standards
- Battery Energy Technology

Replace aging F40/GP40 Locomotives

- Allow for retirement of the least reliable F40 and GP40 locomotives.
- New contract includes up to 50 optional locomotives to fully replace legacy fleets (pending funding availability).

Represents Progress towards the Regional Rail Initiative



Current Locomotive Fleet

GP40 Locomotives

- Built 50+ years ago
- Remanufactured 28-29 years ago
- Expanded Top Deck Overhaul 15-18 years ago
- 13 have exceeded useful life

F40 Locomotives

- Built 33-39 years ago
- Mid-life overhaul 20+ years ago
- Useful life ending 2029-2035

HSP46 Locomotives

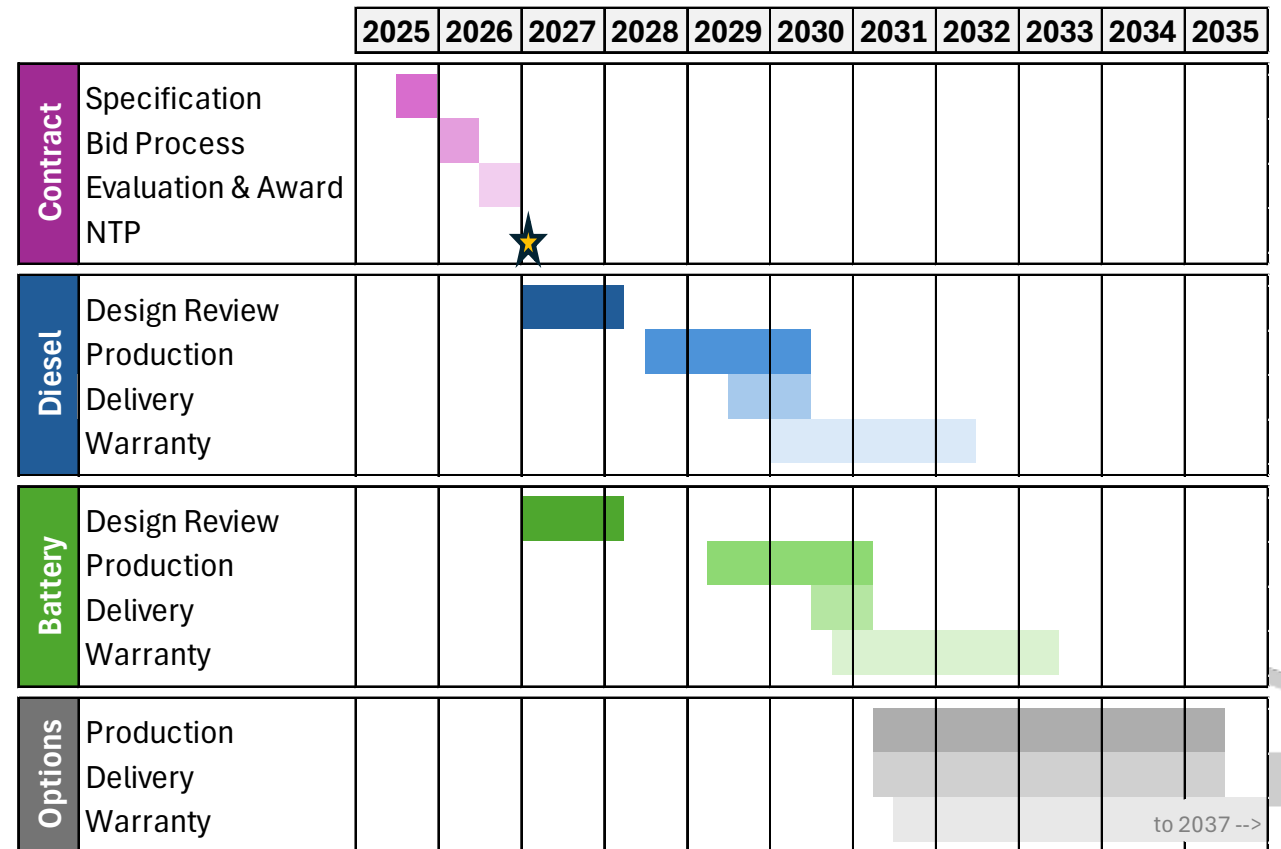
- Built 14 years ago
- Entering Mid-life Overhaul
 - Up to 10 units out of service 2029 – 2031+



Siemens Locomotive Benefits

- Reduced Local Emissions
 - Over 75% lower vs current fleet
 - No local emissions for Battery/Catenary Locomotives
- Allows operation under segmented catenary
- Quieter Operations
- Modern electronics and diagnostics
- Service-Proven Locomotive Design
 - Diesel-electric locomotive is service-proven
 - Over 440 produced or on order
- Parts Commonality
 - Both locomotive types from same manufacturer
 - Major components common to both types
 - (Trucks, Traction Equipment, Cab and Controls, etc..).

- Expedited Procurement
 - Existing base design = faster production, higher quality.
 - Pilot locomotives anticipated in less than 3 years from NTP.



Total Project Budget

The total project budget is **\$373,769,818** with the following line items:

Material Procurement (includes Capital Spares)	\$310,359,988
Professional Services	\$20,559,000
Force Account	\$5,257,230
Project Administration	\$6,167,700
Indirect Costs	\$7,636,200
Contingency (material & project)	\$23,789,700

Notes:

- Contingency includes anticipated change orders for platform integration modifications.
- This project will be funded with a combination of Federal and State Funding
- Funding includes \$200 million provided and approved by the MassDOT Board of Directors (September 23, 2026).



Recommendation to the MBTA Board

VOTED:

- To recommend that the Board authorize the General Manager, or his designee, to award the purchase of **Ten (10) Tier 4 Diesel-electric Locomotives, Ten (10) Battery/Catenary Locomotives, Capital Spares, Simulator, and Special Tools** on Formal Contract 187F-25 to Siemens to manufacture, furnish, and deliver Commuter Rail Locomotives for a total delivered amount not to exceed \$310,359,988.

FURTHER VOTED:

- To recommend that the Board authorize the General Manager, or his designee, to execute any necessary or ancillary documents effectuate this locomotive procurement in accordance with the terms of the Agreement.

