



Massachusetts Bay Transportation Authority

Fiscal and Management Control Board

10 F40 Locomotive Overhaul

June 19, 2017



Overview

- Background of Program
- Procurement
- Recommendation



General Motors EMD - F40PH-2C

2 Fleets Purchased By the MBTA:

Manufacturer: General Motors – Electro Motive Division

First Fleet:

- Quantity: 25
- Purchased new in 1987 – 1988
- Mid-life overhaul conducted by Motive Power Industries (MPI) 2001-2003

Second Fleet:

- Quantity: 12
- Purchased as remanufactured in 1991
- Mid-life overhaul conducted by MPI - 2004





Procurement Details

- Request for Proposal (RFP 25-17) put out to bid April 20, 2017
- Requirements: Overhaul of 10 F40PH-2C/F40PHM type locomotives
 - 3 Possible Future Purchase Options:
 - Option 1: Overhaul of up to 26 additional F40PH-2C/F40PHM-2Cs
 - Option 2: Up to 36 HEP Genset Tier II Upgrades
 - Option 3: Up to 36 D14 to CA5 Upgrades
- Bidders: Higher Power, Progress Rail, and Motive Power
- Selected Bidder: Motive Power - **\$26,898,320** for base 10 locos

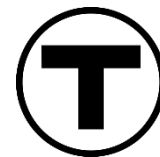


Recommendation:

- Award contract to Motive Power, Inc. in the amount of \$26,898,320.
- MPI's bid amount is similar to other recent overhaul bids
- MPI's base bid falls within the Independent Cost Estimate amount of \$27,000,000.
- Without this agreement, MBTA's plan to maintain the existing locomotive fleet will consume a large portion of the maintenance resources, and negatively effect service performance for MBTA ridership.



Appendix



MBTA Overhaul of 10 F-40 Locomotives

- Procurement to overhaul 10 F-40 locomotives; proposals were due 5/12/17
- 5 from the operating fleet; 5 inactive
- First loco expected back Mar. 2018, then one per month through Dec. 2018
- Estimated cost: \$30 million for 10
- Extends service life by 20 years





Procurement Participation

- **Higher Power**
 - Management located in Yonkers, NY. Production located in Altoona, PA (Norfolk Southern).
 - Currently operating at an estimated 50% capacity and decreasing to 33% by end of Q2 2017.
 - Current customers include: North Carolina (NCDOT).
- **Motive Power**
 - Management and Production located in Boise, Idaho.
 - Currently operating at an estimated 20% capacity and can accommodate 10 MBTA units immediately.
 - Current customers include: MBTA, Go Transit and Metro North
- **Progress Rail**
 - Management located in LaGrange, IL. Production located in Patterson, GA
 - Currently operating at an estimated 40% capacity and can accommodate 10 MBTA units immediately.
 - Current customers include: METRA, Metro North and CalTran

Locomotive Fleet Overview – 104 Locomotives

"Name"	Model	Road Numbers	Builder	Quantity Active	In Service Year	Years in MBTA Service
GP40	GP40MC	1115 - 1139	EMD	25	1997-98	18-19 ¹
1050s	F40PH-2C	1050 - 1075 ²	EMD	25	1987	29
1030s	F40PHM-2C	1025 - 1036	EMD	12	1991	25
MP36	MP36	010 & 011	EMD (MPI)	2	2011 ³	5
HSP	HSP46	2000 - 2039	MPI/GE	40	2014-15	1

Recently Retired:

1000s	F40PH-2	1000-1017 ⁴	EMD	17	1979	37
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1. GP40 Locomotives originally built in 1974, remanufactured in 1997-8.
2. Locomotive Number 1073 was damaged in an accident and is no longer active.
3. MP36 Locomotives built in 2007 for UTA, but not put in MBTA service until 2011
4. Locomotive Number 1016 was scrapped in 2013 and is no longer active



Recent Overhaul Pricing

Agency	Type of Locomotive	Price per Loco	# of Units	Bid Type
Metra	F40PH-2 & F40PHM-2	\$2,219,512	41	RFP
Metro North	GP35	\$1,800,000	7	RFP

- The Metra Overhaul, which is similar to the MBTA Overhaul, is similarly priced.