



Procurement of a Line Car

Presented to: Organizational,
Services & Performance
Monitoring Committee

August 13, 2024



Line Car History

- Overhead Catenary Maintenance Vehicle (OCMV)
- Designated as 032, referred to as The Line Car
- Purchased from Fuji Industries in 1977
- Operated as OCMV for over 45 years.



Line Car History

Engine Rebuild:

- Two during lifetime – 2017 Most recent

Roof Rebuild:

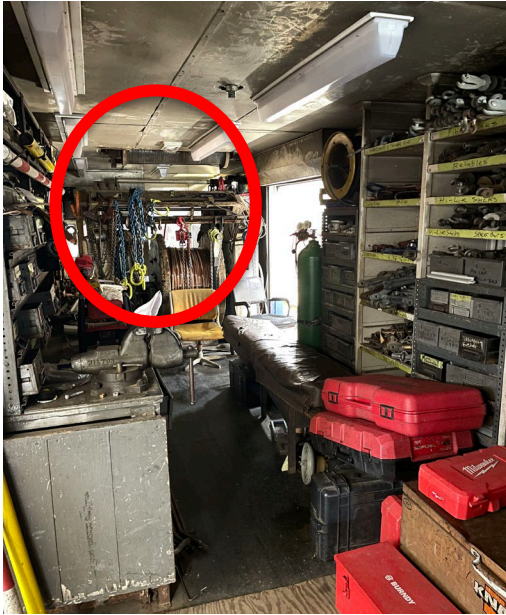
- Two during lifetime – 2023 most recent

Additional Work Necessary:

- Third engine rebuild/replacement
- AC/DC motor rebuild and generators
- Wheel truing



Line Car Interior

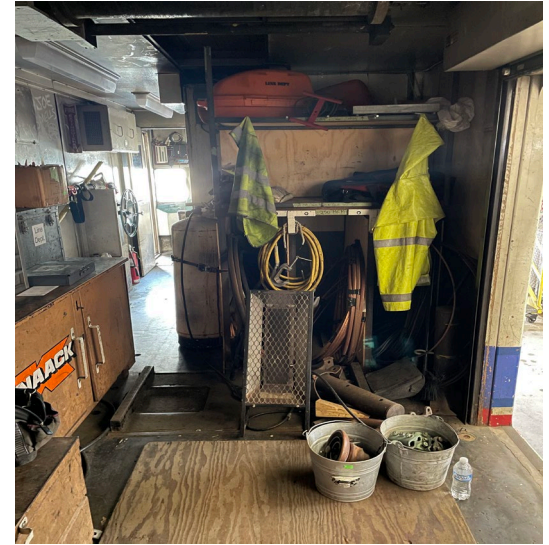


Dual Cable Reel And Storage System:

- Pay-in capabilities no longer functions as designed
- Tensioning system no longer functions as designed

Workshop:

- Limited storage space for tools, material, and PPE
- Limited seating for personnel to and from work site

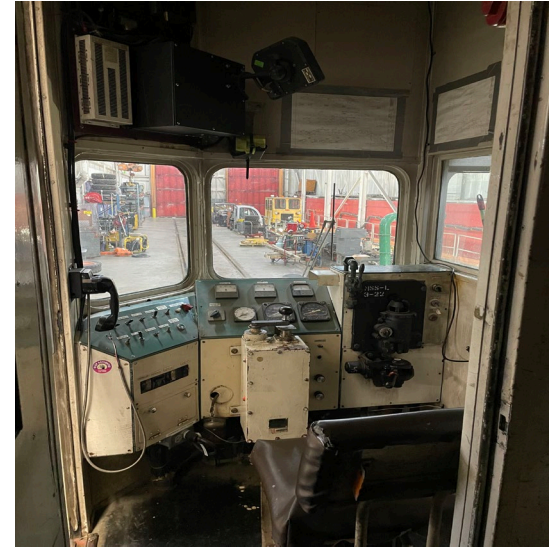


Line Car Interior



Operator Cabin and Controls:

- Operator controls not clearly labeled.
- Limited feedback from vehicle systems.
- Field of view for operator is limited.



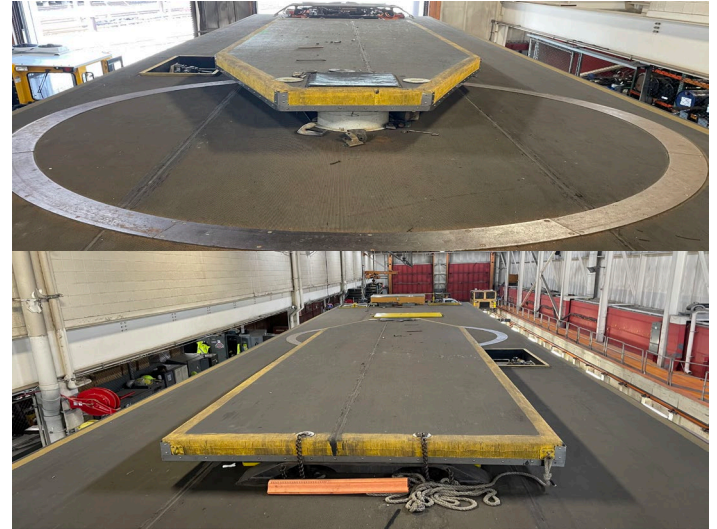
Line Car Interior



Line Car Exterior

Swiveling work platform

- Rotates 360 degrees
- Non-motorized – “self propelled”
- Utilizes wheel chocks for stability
- Lacks lifting capabilities for vertical operation beyond Line Car height.
- Lacks fall protection



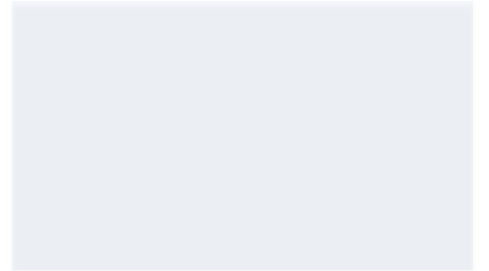
Line Car Exterior

Pantograph:

- Operational for glide check and stagger
- Simulates operating conditions for revenue vehicles



Line Car Exterior



Line Car Exterior

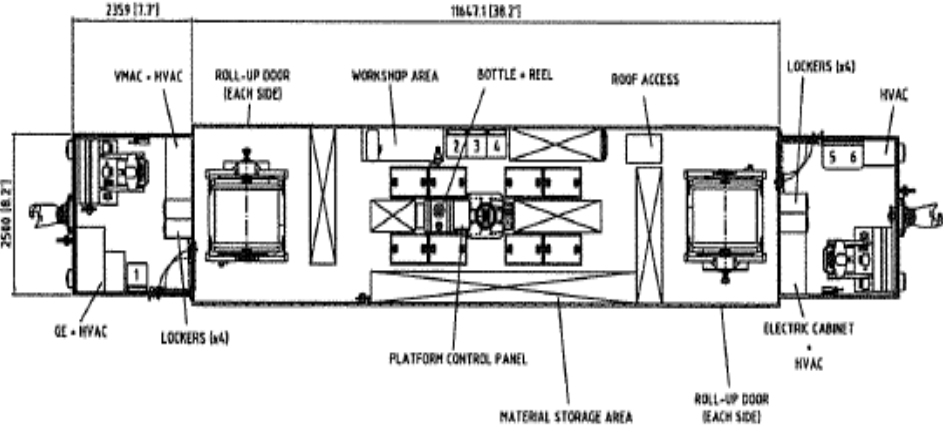
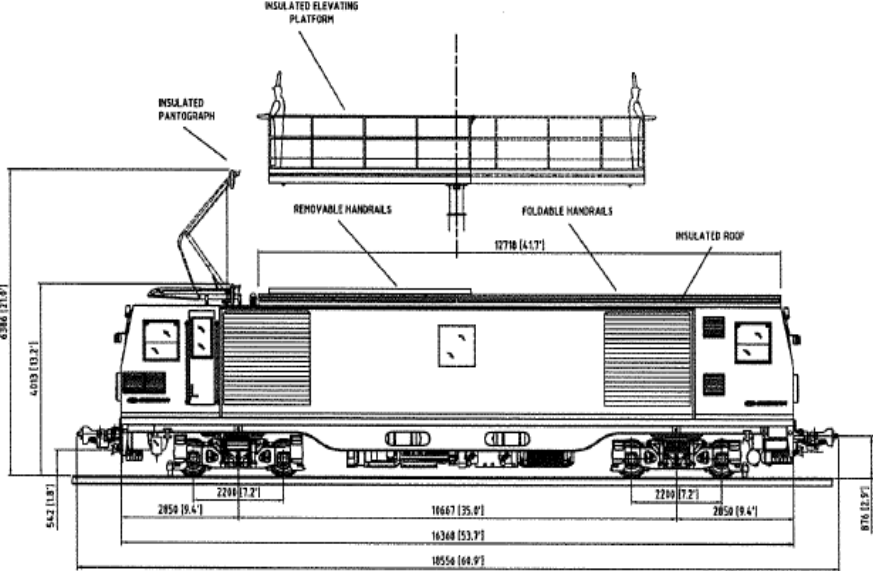


Project Overview – Current State

- Wheels have thin flange and do not match current railcar parameters for truing
- Current width of vehicle too large for new platforms
- Parts are difficult to procure or obsolete
- Offers no fall protection for maintenance personnel
- Exhaust system creates hazardous conditions in tunnels
- Limited storage for tools and equipment
- Seating availability for crew members is limited



Proposed Design – Future State



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- Delivery of a new OCMV for inspection, maintenance and installation of GCRTA overhead catenary systems
 - Capable of video surveillance and monitoring of OCS
 - Capable of multiple cable pay-out under tension
 - Capable of maintaining assets up to 25' in the air
 - Fall Protection



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- Provide a OCMV that conforms to the new dynamic envelope of passenger stations after completion of Engineering Project 66E1
- Improved Field of vision for operator(s)
- Improved storage for tools, equipment and PPE
- Meets EPA Tier 4 diesel engine requirements



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Procurement Overview

- Invitation For Bid (IFB) issued May 6, 2024.
- Accessed on the GCRTA website by six (6) interested parties.
- Two (2) firms submitted a bid.



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Procurement Overview

- Lowest responsive and responsible vendor:
Geismar North America, Inc.
- A 0% DBE participation goal was assigned to this project.



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Firm Experience:

- Geismar North America, Inc. has been in existence since 1974 under the name Modern Track Machinery, Inc. In 2018, the company changed its name to Geismar North America, Inc.
- Geismar North America, Inc. is currently building a locomotive for GCRTA.



Procurement of a Line Car

Recommendation:

Staff requests that the Organizational, Services & Performance Monitoring Committee recommend award to Geismar North America, Inc. for the Procurement of a Line Car. The contract is in an amount not to exceed \$5,165,257.00.



Questions

