

Next Generation Equipment Committee

Multi State Diesel Electric Locomotive Procurement

The Siemens Charger



The NGEC will provide national leadership in standardization, acquisition, financing and management of passenger rail equipment.

February 2018

Multi State Charger Locomotive

Nationwide Standardization



IDOT (Illinois, Michigan, Missouri and Wisconsin)
33 Locos | 33 Shipped



CALTRANS
22 Locos | 6 Shipped



WSDOT
8 Locos | 8 Shipped

- 71 locos on order
32 base + 39 options
- 7 States
- 186 options available until 2021



MARC
8 Locos |
5 Shipped



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Charger Locomotive Operational Map

States and Routes served across the U.S.



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Multi State Charger Locomotive

Project Overview

Fast Facts:

- All ARRA funded locomotives accepted per schedule
- Type and acceptance testing completed at TTCI in Pueblo and on the Northeast Corridor
- High speed tests completed at TTCI and on the Northeast Corridor, up to 135 mph
- 125 mph FRA certification received
- 52 locos shipped
- Accumulated Charger fleet mileage: > 1,000,000 miles (January 2018)

Project Progress:

- Revenue service in California May 2017
- Revenue service in the Midwest July 2017
- Revenue service in Washington Nov. 2017



Multi State Charger Locomotive

Winter in the Midwest



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Equipment Committee



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Acceptance testing (up to 125 mph)



North East Corridor (Sept 2016)



Seattle, Washington (Feb 2017)



Sacramento, California (March 2017)



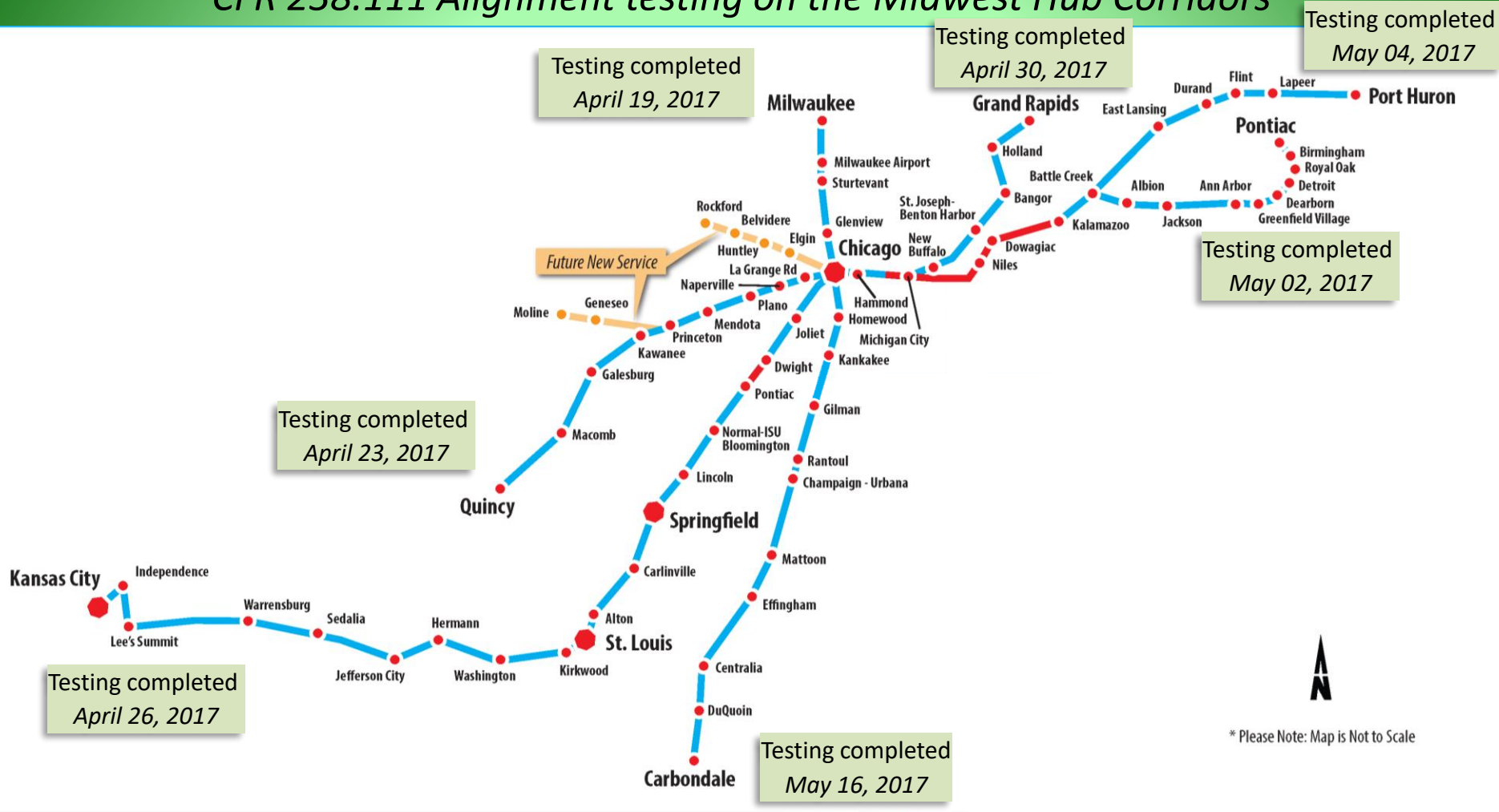
Holland, Michigan (May 2017)



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Multi State Charger Locomotive

CFR 238.111 Alignment testing on the Midwest Hub Corridors



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Chargers in service in Washington and Oregon



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First two Caltrans locomotives for southern California planned in April 2018



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5 locomotives shipped to MARC – Revenue service planned for mid March 2018



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The Brightline Trainset

Revenue service started in January 2018



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Multi State Charger Locomotive

Charger Locomotive driver's desk layout



- Ergonomic design
- Free flow workstation
- Maintenance friendly

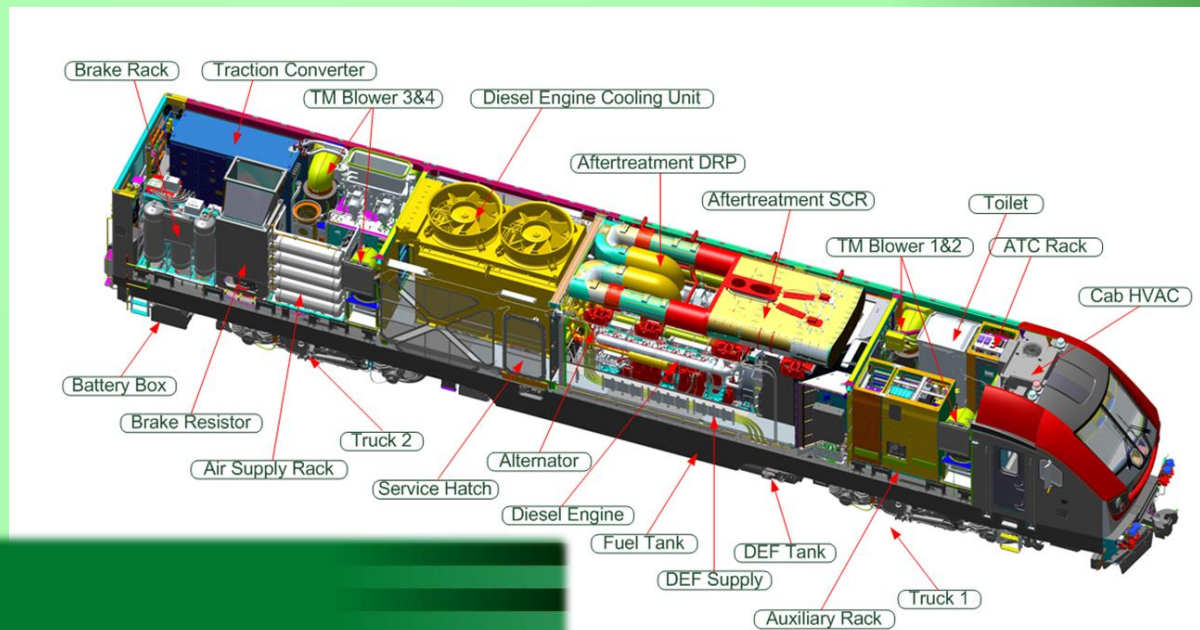


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Multi State Charger Locomotive

Buy America compliance

- **Standardization:** Enables nationwide design commonality with reduced technical risk
- **Safety:** A Tier I carbody structure with crash energy management and a crush resistant engineer's cab
- **Efficiency:** Light weight (267,000 lbs) & intelligent control systems → improved fuel economy, with lower LCC
- **Environment friendly:** Assures 90% improvement on emissions compared to Tier 0 locomotives
- **Monitoring & Diagnostics:** Advanced self diagnostic systems with onboard and wayside monitoring
- **Versatility:** Suitable for commuter, intercity, long-distance service as well as provision for dual mode service



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Thank you

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