

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 2017

The Multi State Charger Locomotive

Country Wide Standardization



IDOT (*Illinois, Michigan, Missouri and Iowa*)
33 Loco's



CALTRANS
22 Loco's

- **71 locos on order**
32 base + 39 options

- **7 States**

- **186 options available**

- **Considerable market interest**



WSDOT
8 Loco's



MARC
8 Loco's



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Multi State Locomotive Procurement

Project Overview

Fast Facts:

- Schedule is a challenge but manageable
- All performance testing is complete
- Tier IV emissions certification achieved
- Manuals delivered and training has started
- 13 locos delivered , 10 with completed burn-in
- 4 locos undergoing 238.111 alignment testing
- Locos are being stored in Pueblo or at Siemens pending States readiness to place into service

Project Progress:

- | | |
|----------------------------|-----------|
| ▪ TTCI performance testing | July 2016 |
| ▪ NEC high speed testing | Sept 2016 |
| ▪ IDOT deliveries | Sept 2016 |
| ▪ Caltrans deliveries | Dec 2016 |
| ▪ WSDOT deliveries | Feb 2017 |
| ▪ MARC deliveries | Sept 2017 |



The Multi State Charger Locomotive

First Product to Fully Embrace the PRIIA Philosophy

- **Standardization.** Enables country wide design commonality with reduced technical risk
- **Product stability.** A well defined technical requirement assures proven product reliability and stability
- **Efficiency.** Light weight (267,000 lbs) & intelligent control systems assuring improved fuel economy, with lower LCC
- **Safety.** A Tier I carbody structure with crash energy management and a crush resistant engineer's cab
- **Environment friendly.** Assures 90% improvement on emissions compared to Tier 0 locomotives
- **Reliability & Maintenance.** High component redundancy with a plug and play design
- **Monitoring & Diagnostics.** Advanced self diagnostic systems with onboard and wayside monitoring
- **Spare parts availability.** Well established, local spare parts supply base with controlled obsolescence
- **Versatility.** Suitable for commuter, intercity, long-distance service as well as provision for dual mode service
- **Localization.** Locally produced utilizing US materials and labor. 100 % buy America compliance
- **PRIIA specification control.** A well managed specification change control process through NGEC
 - 30 document change requests (DCR's) acknowledged



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Charger Locomotive driver's desk layout



- Ergonomic design
- Free flow workstation
- Maintenance friendly



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Performance testing at TTCI in July 2016



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High Speed testing on the NEC , September 2016



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Deliveries started in September 2016 – 13 locos shipped



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Equipment Committee

NGEC

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The Brightline Trainset – Taking advantage of the PRIIA specifications



- First Train set shipped to Florida in December 2016
- Performance testing started in Jan 2017
- Revenue start planned for the summer of 2017



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Thank you



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Ingenuity for life