Next Generation Equipment Committee

Multi State Diesel Electric Locomotive Procurement

The Siemens Charger

February 2017
The Multi State Charger Locomotive

*Country Wide Standardization*

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

- **CALTRANS**
  - 22 Loco’s

- **WSDOT**
  - 8 Loco’s

- **MARC**
  - 8 Loco’s

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

- **7 States**

- **186 options available**

- **Considerable market interest**
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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
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*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 1 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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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